FILE NO.

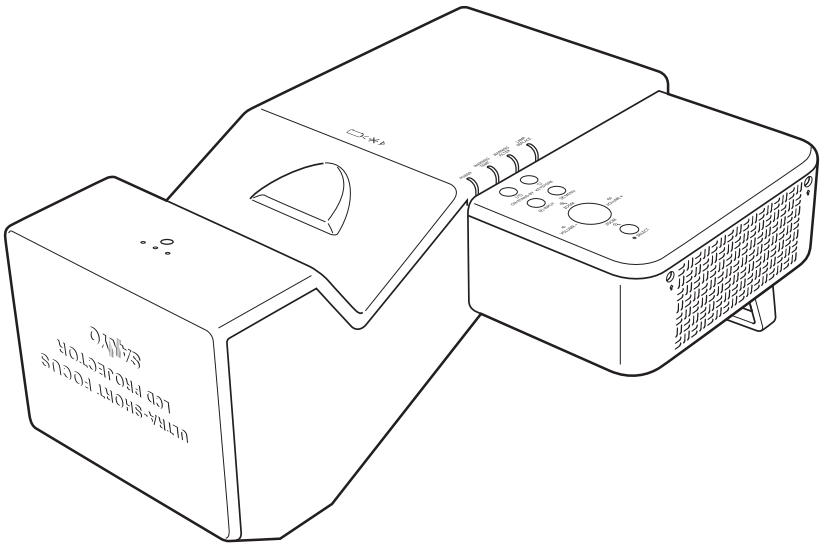
SERVICE MANUAL

Multimedia Projector

Model No. PLC-XL51A

U.S.A, Canada,
Europe, U.K,

Original Version



Chassis No. KV7-XL51A00

Match the Chassis No. on the rating label of the projector with the Chassis No. in the Service Manual.
If the Original Version Service Manual Chassis No. does not match the projector's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing.

PRODUCT CODE
1 122 453 20 (KV7AE)
1 122 454 20 (LV7AE)
1 122 454 22 (LV7CE)

REFERENCE NO. SM5111176-00

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Safety Instructions

Safety Precautions

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⎓) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PRO TECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

Product Safety Notice

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

Technical Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	14.72″ x 7.75″ x 19.49″ (374.0 mm x 196.8 mm x 495.0 mm) (Not including protrusions)
Net Weight	16.5 lbs (7.5 kg)
Feet Adjustment	0˚ to 1.0˚

Panel Resolution

LCD Panel System	0.8″ P-Si TFT Active Matrix type
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 50–100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 60″ to 80″
Projection Lens	F 1.85 lens with f 4.83 mm with manual focus
Distance (Screen - Projector)	-0.131′ – 0.265′ (-4.0 cm – 8.1 cm)
Projection Lamp	275 W

Interface

Video Input Jack	RCA Type x 1
S-Video Input Jack	Mini DIN 4 pin x 1
Audio Input Jacks	RCA Type x 2
Component Input Jacks	RCA Type x 3
Computer Input 1 Input Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1
Computer Input 2 / Monitor Output Terminal	Analog RGB (Mini D-sub 15 pin) Terminal x 1 (In/Out switchable)
Audio Input Computer Jack	Mini Jack (stereo) x 1
Service Port Connector	Mini DIN 8 pin x 1
Audio Output Jack	Mini Jack (stereo) x 1 (Variable)
LAN Connection terminal	100 Base - TX (100Mbps/10 Base - T (10Mbps), RJ45
SD Memory Card slot	

Audio

Internal Audio Amp	2.0 W RMS
Built-in Speaker	1 speaker, ø2.0″ (50 mm)

Power

Voltage and Power Consumption	AC 100–120 V (4.4 A Max. Ampere), 50/60 Hz (The U.S.A and Canada)
	AC 200–240 V (2.1 A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)

Operating Environment

Operating Temperature	41˚F–104˚F (5˚C–40˚C)
Storage Temperature	14˚F–140˚F (-10˚C–60˚C)

Remote Control

Battery	AA or LR6 1.5V ALKALINE TYPE x 2
Operating Range	11.5′ (3.5 m) / ±90˚
Dimensions	1.9″ (W) x 0.87″ (H) x 5.7″ (D) (49 mm x 22 mm x 145.3 mm)
Net Weight	3.50 oz (100 g) (including batteries)

- The specifications are subject to change without notice.
- LCD panels are manufactured to the highest possible standards. Even though 99.99% of the pixels are effective, a tiny fraction of the pixels (0.01% or less) may be ineffective by the characteristics of the LCD panels.

■ Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

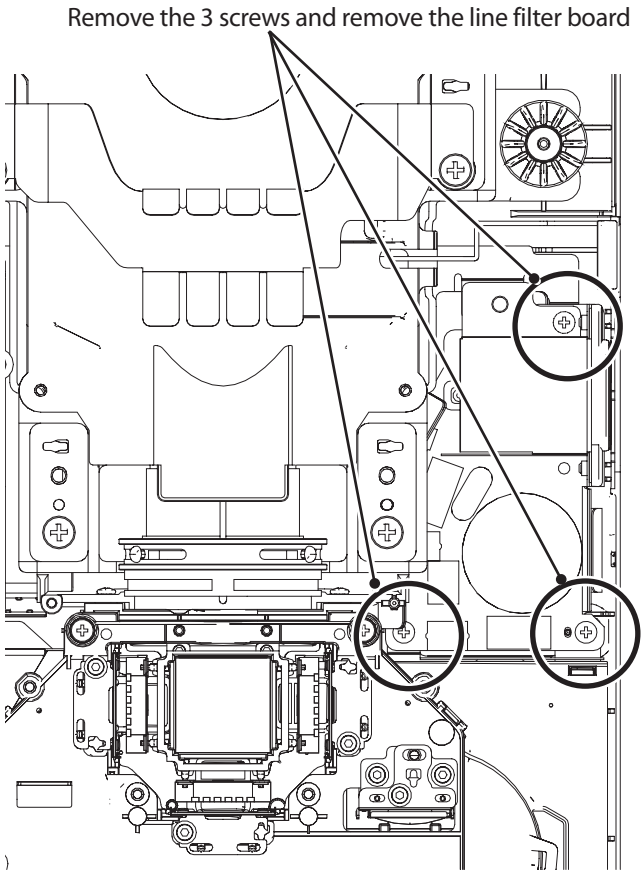
Fuse

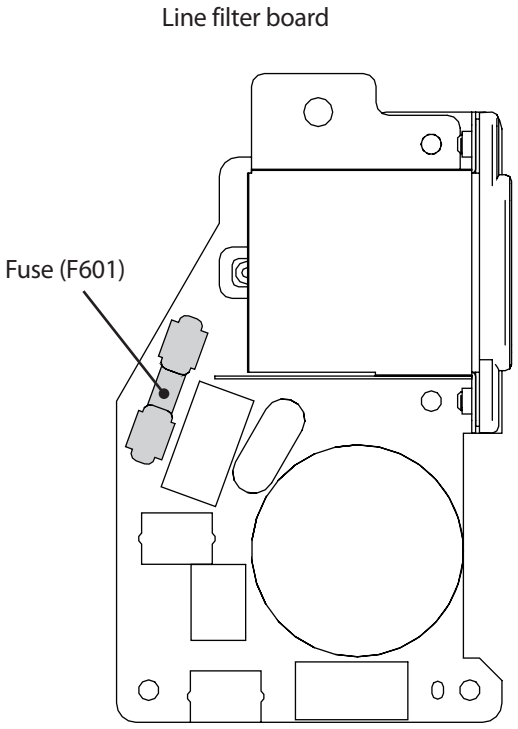
A fuse is located inside of the projector. When the POWER indicator is not lightning, the fuse may be opened. Check the fuse as following steps.
The fuse should be used with the following type;

Fuse Part No.: 323 025 1204
TYPE 8A 250V FUSE
LITTLE FUSE INC. TYPE 215008

How to replace the fuse

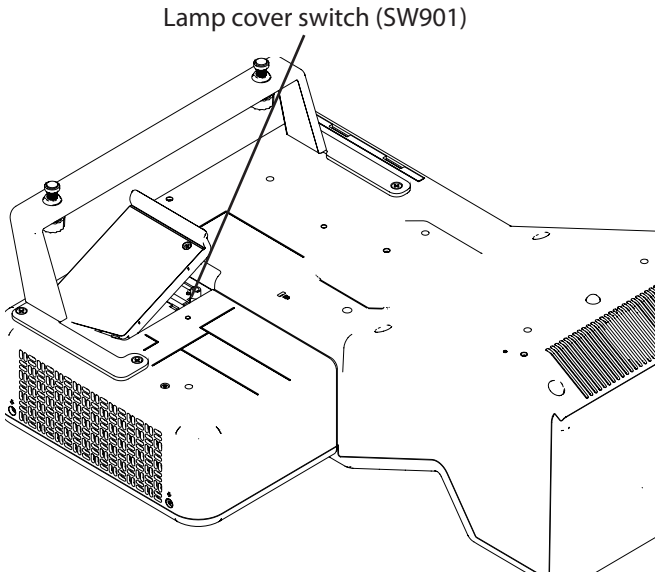
1. The fuse is placed on the line filter board under the main board. Remove the cabinet top and main board. (Refer to Fig.)
2. Take the fuse off, and replace the new one with the specified type.





Lamp cover switch

The lamp cover switch (SW901) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



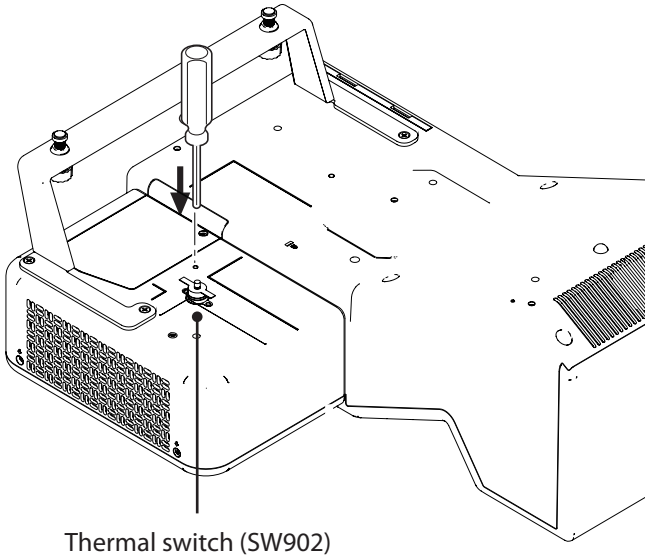
Thermal switch

There is the thermal switch (SW902) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 100˚C, the thermal switch opens to stop the operation of the power supply circuit.
The thermal switch cannot be reset itself automatically even if the internal temperature becomes normal. Reset the thermal switch following to the below procedure.

How to reset the thermal switch

1. Insert the sharp tool like a screwdriver into a hole on the cabinet from the cabinet bottom.
2. Press the reset button on the thermal switch with the screwdriver.

CAUTION:
Before press the reset button, make sure that the AC cord must be disconnected from the AC outlet.



Warning temperature and power failure protection

The projector will be automatically turned off when the internal temperature of the projector is abnormally high, or the cooling fans stop spinning, or the power supplies in the projector are failed.

- If the WARNING TEMP. indicator is flashing, it may detect the abnormal temperature inside the projector. Check the following possible causes and wait until the WARNING TEMP. indicator stops flashing, and then try to turn on the projector.
- If the WARNING indicator lights red, it may defect the cooling fans or power supply circuits. Check fans operation and power supply lines referring to the chapter "Power supply & protection circuit" in the Chassis Block Diagram section.

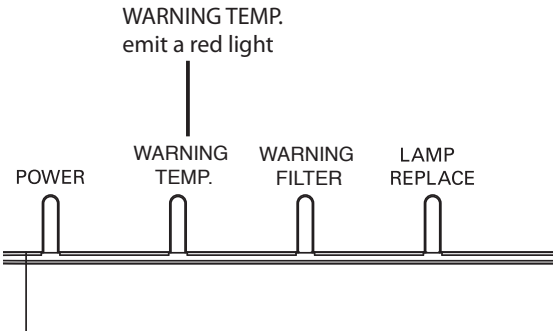
Possible causes

- Air filters are clogged with dust particles. Remove dust from the air filters by following instructions in the "Air filter care and cleaning" below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 40 ˚C or 41 to 104˚F)

The projector is shut down and the WARNING TEMP. indicator lights red.

When the projector detects an abnormal condition, it is automatically shut down to protect the inside of the projector and the WARNING TEMP. indicator lights red. In this case, unplug the AC power cord and reconnect it, and then turn the projector on once again to verify operation. If the projector cannot be turned on and the WARNING TEMP. indicator still lights red, it may defect the cooling fans or power supply circuits.

Indicators



CAUTION

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

■ Maintenance and Cleaning

Cleaning the Air Filter

The air filter prevents dust from accumulating on the surface of the optical elements inside the projector. Should the air filter become clogged with dust particles, it will reduce cooling fans' effectiveness and may result in a buildup of internal heat and adversely affects the life of the projector. Clean the air filter by following the steps below.

1 Turn off the projector, and unplug the AC power cord from the AC outlet.

2 Turn over the projector and remove the air filter by pulling the latches upward.

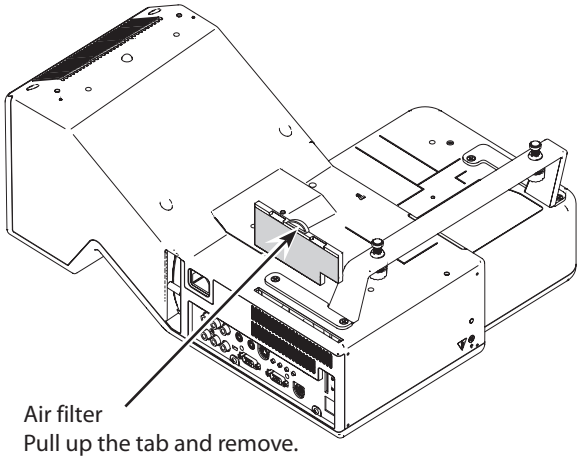
3 Clean up the dust on the projector and around the air vents.

4 Gently clean the filter by using a brush or blower.

WARNING: Do not wash the filter with water and any other liquid matter. Otherwise the filter may be damaged.

5 Reinstall the filter into the projector properly.

6 Reset the filter counter in the Setting Menu. See "Resetting the Filter Counter" below.



Air filter
Pull up the tab and remove.

CAUTION
Do not operate the projector with the air filter removed. Dust may accumulate on the optical elements degrading picture quality. Do not put anything into the air intake vents. Otherwise it may result in malfunction of the projector.

✔Note:

- When cleaning the air filter, protect the infrared remote receiver with a soft cloth to avoid damaging it.
- If the filter is heavily clogged and unable to clean, replace it with a new one. Consult your dealer for details.

Replacement Filter Part No.: 610 335 4057

RECOMMENDATION

We recommend avoiding dusty/smoky environments when you operate the projector. Usage in these environments may cause poor image quality.

When you use the projector under dusty or smoky conditions, dust may accumulate on the lens, LCD panels, or optical elements inside the projector degrading the quality of a projected image.
When the symptoms above are noticed, contact your authorized dealer or service station for proper cleaning.

Resetting the Filter Counter

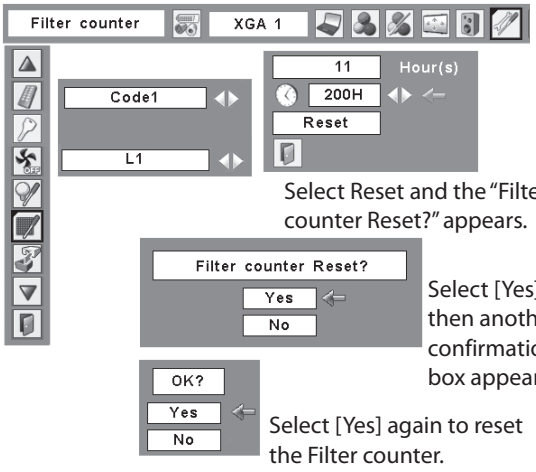
Be sure to reset the Filter counter after cleaning or replacing the filter.

1 Press the MENU button to display the On-Screen Menu. Use the Point ◀ ▶ buttons to move the red frame pointer to the Setting Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.

3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.

Filter counter



Select Reset and the "Filter counter Reset?" appears.

Select [Yes], then another confirmation box appears.

Select [Yes] again to reset the Filter counter.

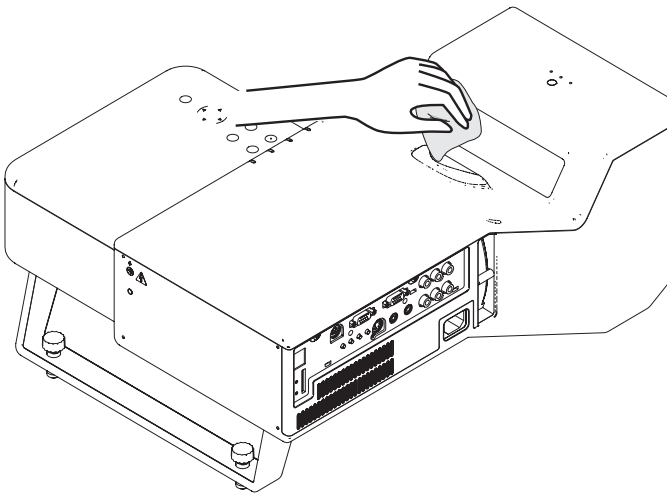
Cleaning the Projection Window

CAUTION

This projector is equipped with a projection window.
Do not rub the projection window with a hard fiber cloth or hit it with a something hard to prevent the projection window from scratching. Do not use a chemical cleaner (liquid and solid) to avoid deteriorating the projection window.

Unplug the AC power cord before cleaning.

First, remove the dust with a blower. Then gently wipe the projection window surface. Use a cleaning paper moistened with methyl alcohol (methanol). Avoid excessive use of cleaner. Do not use abrasive cleaners, solvents, or other harsh chemical cleaners to avoid damaging the projection window.



Cleaning the Projector Cabinet

Unplug the AC power cord before cleaning.

Gently wipe the projector body with a soft dry cleaning cloth. When it is heavily soiled, use a small amount of mild detergent and finish with the cleaning cloth. Avoid excessive use of cleaner. Abrasive cleaners, solvents, or other harsh chemicals might scratch the surface of the cabinet.

When the projector is not in use, put the projector in an appropriate case to avoid dust and being scratched.

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to "Mechanical Disassemblies".
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

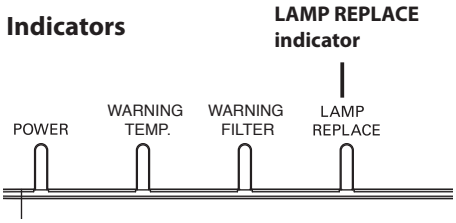
1. Remove the cabinet top and main units following to "Mechanical Disassemblies".
2. Remove the optical base top following to "Optical Unit Disassemblies". If the LCD panel needs cleaning, remove the LCD panel unit following to "LCD panel replacement".
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ Lamp Replacement

Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.



Lamp replacement icon

WARNING:
TURN OFF THE UV LAMP BEFORE OPENING THE LAMP COVER

✔Note:

- The Lamp replacement icon will not appear when the Display function is set to "Off", during "Freeze", or "No show".

CAUTION

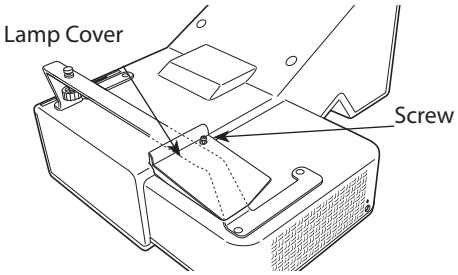
Allow a projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

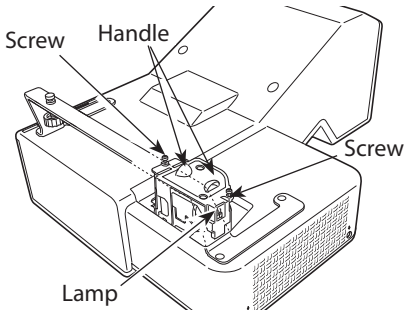
CAUTION

For continued safety, replace with a lamp of the same type. Do not drop a lamp or touch a glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

1. Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
2. Remove the screw from the lamp cover and open the cover.
3. Loosen the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
4. Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Close the lamp cover and secure the screw.
5. Connect the AC power cord to the projector and turn on the projector.
6. **Reset the lamp counter.**
   See "Lamp Replacement Counter" on the next page.





✔Note:

- When replacing the projection lamp, protect the infrared remote receiver with a soft cloth to avoid damaging it.

ORDER REPLACEMENT LAMP

Replacement lamp can be ordered through your dealer. When ordering a projection lamp, give the following information to the dealer.

- **Model No. of your projector : PLC-XL51A**
- **Replacement Lamp Type No.: POA-LMP121**
  (Service Parts No. 610 337 9937)

Lamp Replacement Counter Reset

Be sure to reset the Lamp replacement counter after the lamp is replaced. When the Lamp replacement counter is reset, the LAMP REPLACE indicator stops lighting.

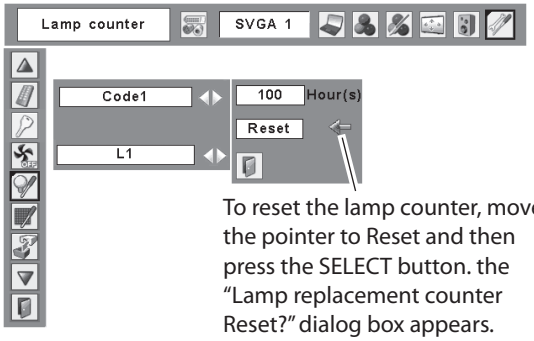
1 Turn the projector on and press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red frame pointer to the Setting Menu icon.

2 Use the Point ▲▼ buttons to move the red frame pointer to Lamp counter and then press the SELECT button. The first dialog box appears showing the total accumulated lamp time and reset option. If you select Reset, "Lamp replacement counter Reset?" appears. Select "Yes" to continue.

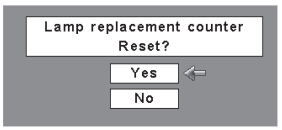
3 Another confirmation dialog box appears, and select "Yes" to reset the Lamp replacement counter.

✔Note:

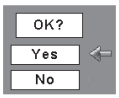
•Do not reset the Lamp replacement counter without implementing lamp replacement. Be sure to reset the Lamp replacement counter only after replacing the lamp.



To reset the lamp counter, move the pointer to Reset and then press the SELECT button. the "Lamp replacement counter Reset?" dialog box appears.



Select "Yes," then another confirmation box appears.



Select "Yes" again to reset the lamp counter.

LAMP HANDLING PRECAUTIONS

This projector uses a high-pressure lamp which must be handled carefully and properly. Improper handling may result in accidents, injury, or create a fire hazard.

●Lamp life may differ from lamp to lamp and according to the environment of use. There is no guarantee of the same life for each lamp. Some lamps may fail or terminate their life in a shorter period of time than other similar lamps.

●If the projector indicates that the lamp should be replaced, i.e., if the LAMP REPLACE indicator lights up, replace the lamp with a new one IMMEDIATELY after the projector has cooled down.
(Follow carefully the instructions in the Lamp Replacement section of this manual.) Continuous use of the lamp with the LAMP REPLACE indicator lighted may increase the risk of lamp explosion.

●A Lamp may explode as a result of vibration, shock, or degradation as a result of hours of use, as it comes to the end of life. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.

IF A LAMP EXPLODES, THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE TAKEN.

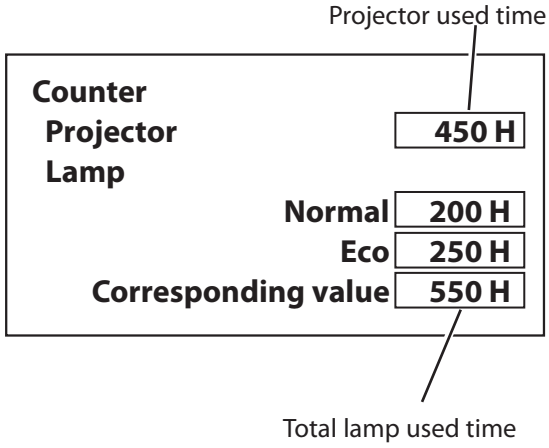
If a lamp explodes, disconnect the projector's AC plug from the AC outlet immediately. Contact an authorized service station for a checkup of the unit and replacement of the lamp. Additionally, check carefully to ensure that there are no broken shards or pieces of glass around the projector or coming out from the cooling air circulation holes. Any broken shards found should be cleaned up carefully. No one should check the inside of the projector except those who are authorized trained technicians and who are familiar with projector service. Inappropriate attempts to service the unit by anyone, especially those who are not appropriately trained to do so, may result in an accident or injury caused by pieces of broken glass.

How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3,000 hours.
This is to indicate that lamp replacement is required.
The total lamp used time is calculated by using the below expression,
Total lamp used time (Corresponding value) = **T**eco + (**T**normal x 1.5)

Teco : used time in the Normal mode
Tnormal : used time in the High mode

You can check the lamp used time following to the below procedure.
1 Press and hold the **ON/STAND-BY** button on the projector or remote control unit for more than 20 seconds.
2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



■ Security Function Notice and Standby mode Notice

Security Function Disable

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. Initial setting: Key lock function is disabled
PIN code lock	Prevents the projector from being operated by an unauthorized person. Initial code: "1234"
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo and captured image on the screen. Initial code: "4321"

Resetting procedure

1. Disconnect the AC power cord from the AC outlet.
2. As pressing the **SELECT** button connect the AC power cord into an AC outlet again.
3. Keep pressing the **SELECT** button and then press the **ON/STAND-BY** button.
4. Release the **ON/STAND-BY** button first and then release the **SELECT** button.

The PIN code lock and Logo PIN code lock will be reset as the initial PIN code at the factory and the Key lock function is disabled.
Please refer to the owner's manual for further information of the security functions.

Standby mode Notice

This function is used to change the setting of standby electricity.

Eco.....Standby electricity becomes small.

The projector's network function will stop when controlling the projector with RS-232C.

✔Note:

- When "Eco" is selected, several functions will be restricted.

Network.....Standby electricity becomes large.

Restricted Function at the Eco mode

Function	Eco mode
Serial Command control	X (Only possible Power ON ---- ◯)
Network Function	X
Monitor Out	X
Audio Out	X
On start	◯

■ Network Easy Setup Function

Network Easy Setup function by using the SD memory card

1. Outline

This projector provides a function to setup the network automatically by reading the network setting file (PJ_Network.ini) stored in the top directory of the SD memory card. By using the function, network setup can be done easily.

Setting Procedure

1. Create the network setting file (PJ_Network.ini) with your computer's text editor software. Refer to the item "2. Function details" below for the format and contents of the network setting file.
2. Put the network setting file into the top directory of the SD memory card.
3. Insert the SD memory card into the projector's card slot.
4. Turn the projector on. The projector loads the setting file information in the SD memory card and applies them to own network setting.

Setting items

Used LAN No. .....Used LAN No. is specified. Projector is forced to select the LAN No. specified with this item while the SD memory card is installed.
LAN Setting Items .....Network settings are specified. The available items are shown in the table below.

		LAN No.					
		LAN1	LAN2	LAN3	LAN4	LAN5	LAN6
Setting items	Type	✔	✔	✔	✔	✔	--
	IP address	✔	✔	✔	✔	✔	--
	Subnet mask	✔	✔	✔	✔	✔	--
	Gateway	✔	✔	✔	✔	✔	--
	DNS server	✔	✔	✔	✔	✔	✔
	Wireless type	--	--	--	✔	✔	--
	Channel No.	--	--	--	✔	✔	--
	WEP key index	--	--	--	✔	✔	--
	Key code	--	--	--	✔	✔	--
	Security	--	--	--	✔	✔	--
	Mode	--	--	--	✔	✔	--
	SSID	--	--	--	✔	✔	--
	WEP key	--	--	--	✔	✔	--
	PSK(TKIP) key	--	--	--	✔	✔	--
	PSK(AES) key	--	--	--	✔	✔	--

* LAN1 to LAN3 are for the wired LAN settings. LAN4 to LAN6 are for the wireless settings. LAN6 can be setup only the DNS server address because it is for the wireless simple setting.

2. Function details

2-1 Format of setting file

Format of setting file is specified as follows;
[Setting object] + ":" + [item] + [tab] + [item] + [tab] + [item] + [tab] + [item] + [tab] + ...

* Number of setting items and types are depending on the [Setting object].

2-1-1 Used LAN No.

Used LAN No. is specified.

Setting Object		LANNO
Item type	LAN No.	1 to 6

* If out of range value is specified, the setting is invalid.

2-1-2 Basic Network Setting

Basic network setting is specified.

Setting Object		LAN1 LAN2 LAN3 LAN4 LAN5 LAN6
Item types (5 items)	Type	MANUAL DHCP
	IP address	nnn.nnn.nnn.nnn format
	Subnet mask	nnn.nnn.nnn.nnn format
	Gateway	nnn.nnn.nnn.nnn format
	DNS server	nnn.nnn.nnn.nnn format

* If the "DHCP" for type is used, IP address, Subnet mask , Gateway, DNS server items are invalid.
* If each address is not deliminated by dot, the settings are invalid.

2-1-3 Wireless LAN Setting

Wireless LAN setting is specified.

Setting Object		WIRELESS4 WIRELESS5
Item types (9 items)	Wireleee type	802.11b/g 802.11b
	Channel No.	1 to 11
	WEP key index	1 to 4
	Key code	ASCII HEX
	Wireless security	DISABLE WEP64 WEP128 SHARED-WEP64 SHARED-WEP128 TKIP AES
	Mode	ADHOC Infrastructure
	SSID	up to 32 characters
	PSK(TKIP) key	ASCII 2 to 63 characters HEX 64 characters
	PKIP(AES) key	

2-1-4 Wireless LAN (WEP key) Setting

WEP key of Wireless LAN are specified.

Setting Object		WIRELESS4-WEP WIRELESS5-WEP	
		WEP64 / SHARED-WEP64	WEP128 / SHARED-WEP128
Item types (4 items)	WEP key (1)	5 characters for ASCII 10 characters for HEX	13 characters for ASCII 26 characters for HEX
	WEP key (2)		
	WEP key (3)		
	WEP key (4)		

2-1-5 Notes

If you do not want to change the current setting values, use blank for those setting. As the items, SSID, PSK(TKIP) key and PSK(AES) key are character type data, if those keys are blanks, the blank keys are applied. The items, PSK(TKIP) key, PSK(AES) key and WEP key must be used with the specified character code and number of characters. If the number of character is less than specified, the setting will be invalid. If the number of character is more than specified, the key is setup with the valid number of characters and setting is valid.

3. Creating the Setting Data

Write the following information with the text editor software. Save it with the name of "PJ_Network.ini" into top directory of the SD memory card. Each item must be deliminated by tab. See the item "2-1 Format of setting file" for the details.

Example of setting file

```
LANNO:1
LAN1:MANUAL    192.168.1.101     255.255.255.0     192.168.1.1        192.168.100.1
LAN2:MANUAL    192.168.1.102     255.255.255.0     192.168.1.1        192.168.100.1
LAN3:DHCP
LAN4:DHCP
WIRELESS4:802.11B/G     11        4          ASCII     WEP128 Infrastructure     PJ-WIRELESS4
1234567890abCDefGH     abCDefGH1234567890
WIRELESS4-WEP:abCDefGH12345  abCDefGH67890 12345abCDefGH 67890abCDefGH
WIRELESS5-WEP:1234567890abcdef1234567890      abcdef12345678901234567890
```

ASCII key characters : Space - 0 to 9 A to Z a to z ! " # $ % & ' ( ) * + , . / : ; < = > ? @ [¥] ^ _ ` { | } ~
HEX key characters : 0 to 9 a to f

Description

Describe "Example of setting file" as below;

Used LAN No.

Setting Object	LAN No.
LANNO	1

LAN1 is specified for used LAN No. If the projector provides the SD memory card, LAN1 is selected forcibly. If this item is not specified, this function is disable.

Basic Network Setting

Setting Object	Type	IP address	Subnet mask	Gateway	DNS server
LAN1	MANUAL	192.168.1.101	255.255.255.0	192.168.1.1	192.168.100.1
LAN2	MANUAL	192.168.1.102	255.255.255.0	192.168.1.1	192.168.100.1
LAN3	DHCP				
LAN4	DHCP				

Basic network settings for LAN1 to LAN4 are specified, not specified for LAN5.

Wireless LAN Setting

Setting Object	Wireless type	Channel No.	WEP Key Index	Key Code	Security	Mode	SSID
WIRELESS4	802.11B/G	11	4	ASCII	WEP128	Infrastructure	PJ-WIRELESS4

PSK(TKIP) Value	PSK(AES) Value
1234567890abCDefGH	abCDefGH1234567890

Wireless LAN setting for LAN4 is specified.
As the "4" is specified for WEP key index, the 4th key of Wireless LAN Setting (WEP key) described below is used.
As the "ASCII" is specified for key code, the character code must be used with ASCII.
As the "WEP128" is specified for wireless security, the key of WEP must be specified with ASCII 13 characters.
It can be specified for PSK(TKIP) and PSK(AES) keys at the same time.

Wireless LAN Setting (WEP key)

Setting Object	WEP key (1)	WEP key (2)	WEP key (3)	WEP key (4)
WIRELESS4-WEP	abCDefGH12345	abCDefGH67890	12345abCDefGH	67890abCDefGH

WEP keys for wireless LAN4 are specified.
As the "WEP128" is specified for wireless security, the key of WEP must be specified with ASCII 13 characters.

Setting Object	WEP key (1)	WEP key (2)	WEP key (3)	WEP key (4)
WIRELESS5-WEP	1234567890abcdef1234567890	abcdef12345678901234567890		

WEP keys for wireless LAN5 are specified.
This example shows only the Wireless LAN Setting (WEP key) for LAN5 is specified with HEX 26 characters.

■ Mechanical disassemblies

Disassemble should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.

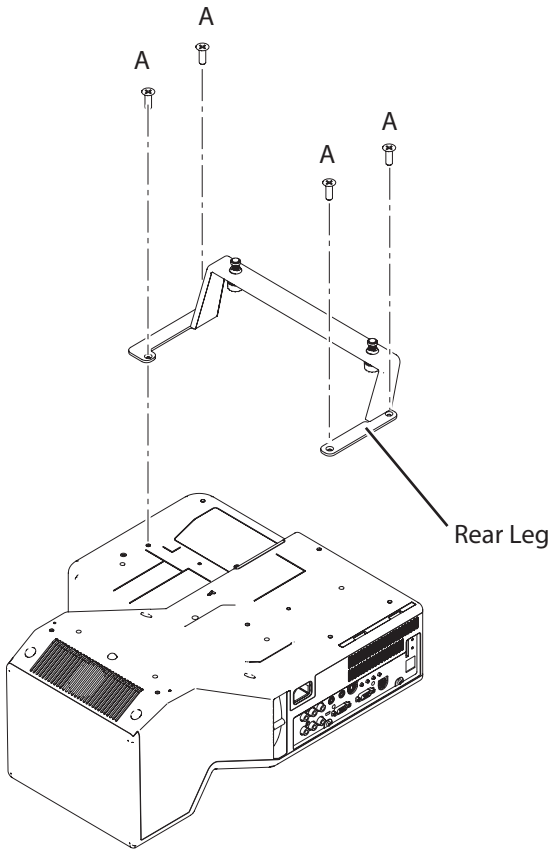
Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause lose of performance and product safety.
The wiring method of the leads and ferrite cores should be returned exactly the same state as the original, otherwise it may cause lose of performance and product safety.

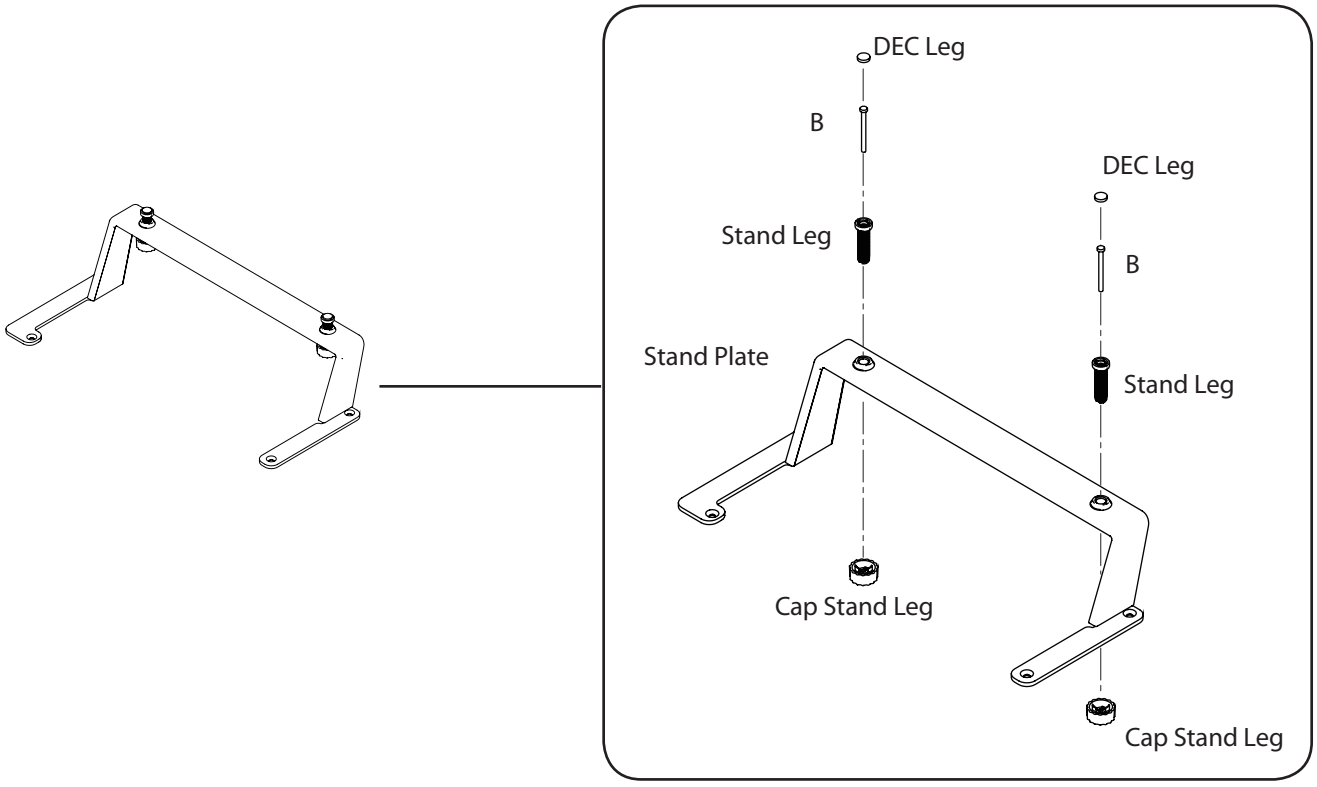
Screws Expression (Type Diameter x Length) mm	
T type	M Type
Tapping screw	Machine screw

1 Rear Leg removal.

1. Remove the 4 screws-A(M4x12) and remove the Rear Leg.

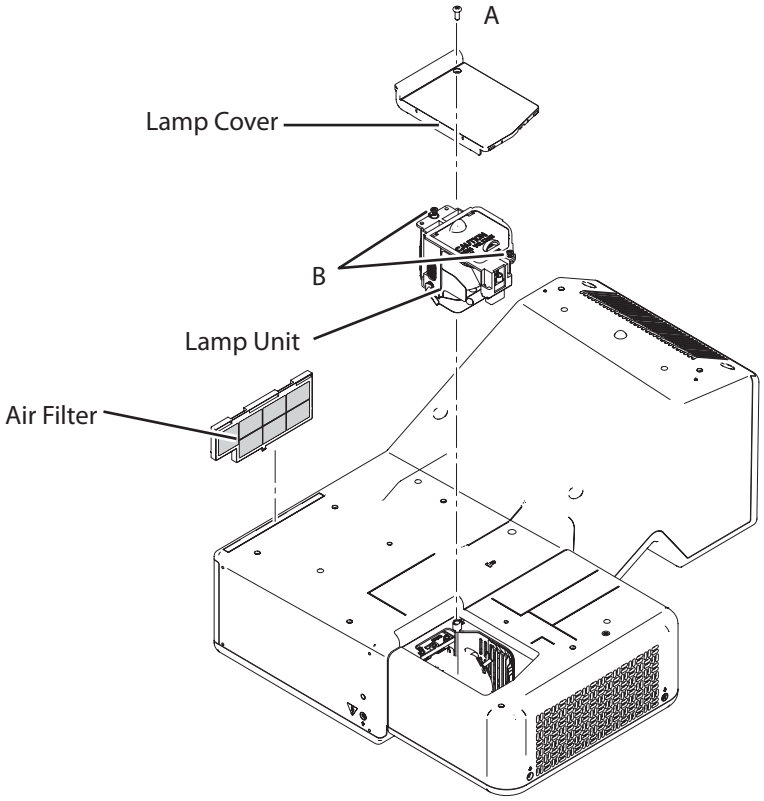


2. Remove the 2 DEC Legs.
3. Remove the 2 screws-B (M3x35).
4. Remove the 2 Stand Legs and Cap Stand Legs.



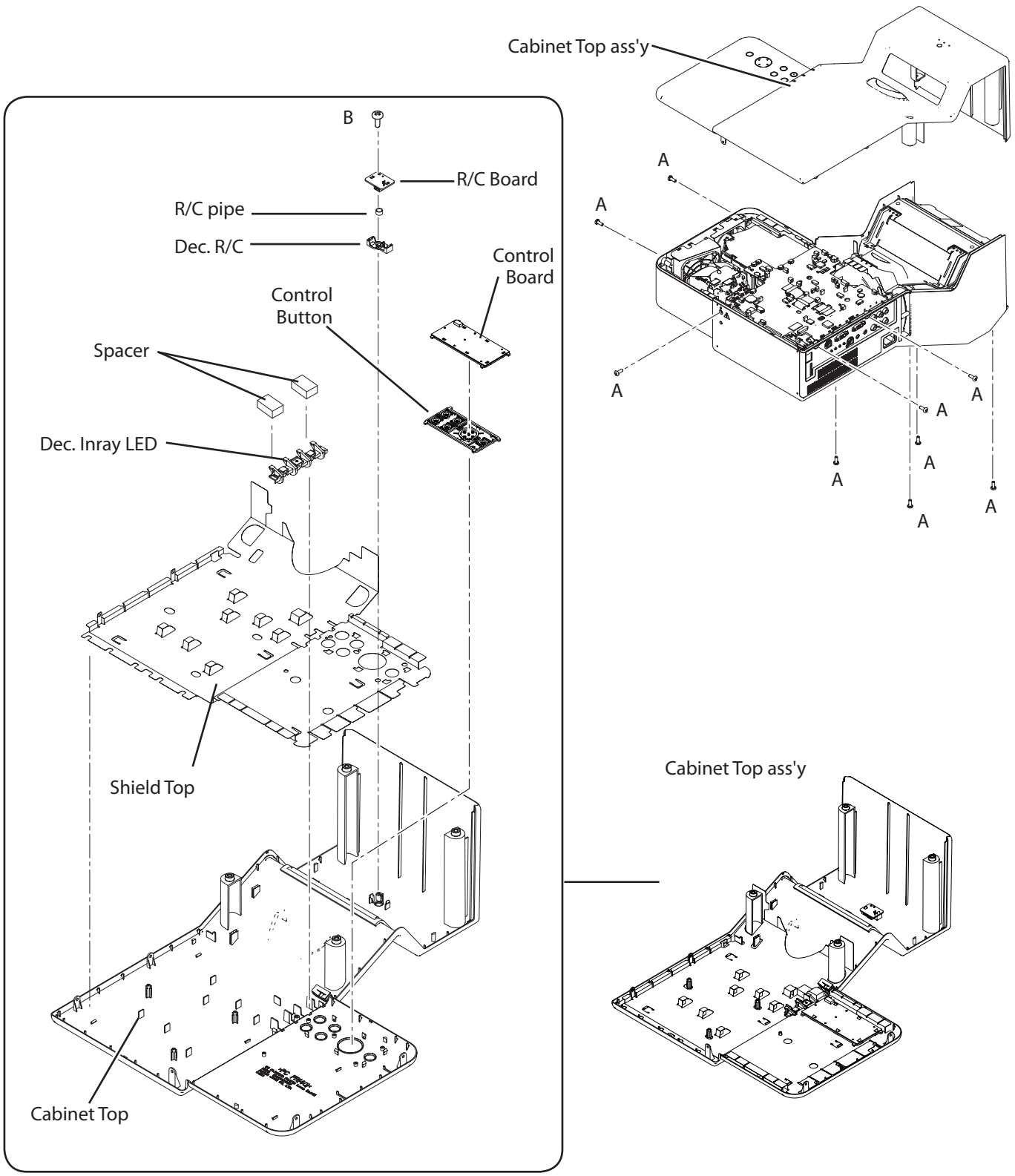
2 Lamp Unit and Alarm Battery removal.

1. Remove the screw-A(M3x8) and remove the Lamp cover.
2. Loosen the 2 screws-B and remove the Lamp uint.
3. Remove the Air Filter upward.



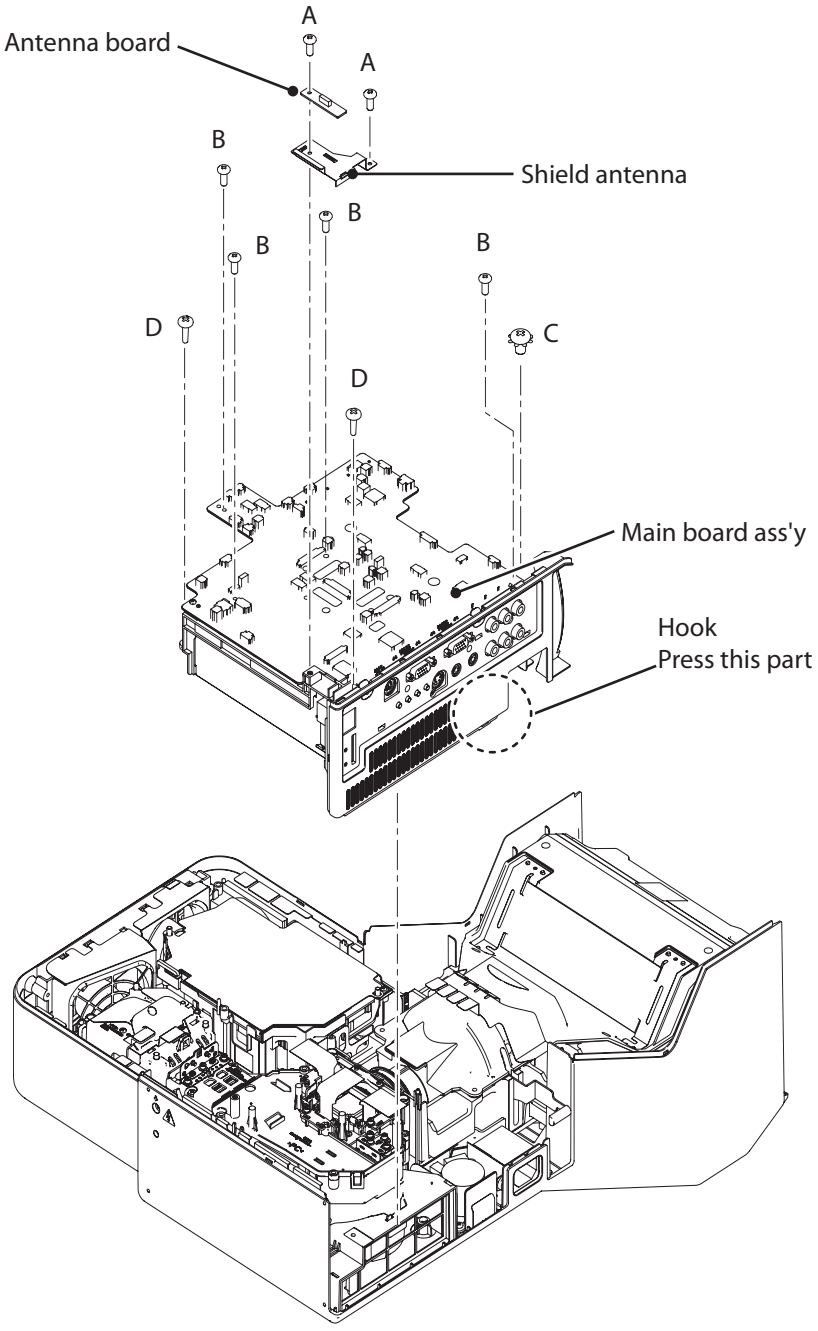
3 Cabinet top ass'y removal.

1. Remove the 9 screws-A(M3x8) and remove the Cabinet top ass'y.
2. Remove the screw-B(T3x8), remove the R/C board, R/C pipe and remove the Decoration R/C.
3. Remove the Control board and Control Button.
4. Remove the Spacer, Decoration Inray LED and Shield top.

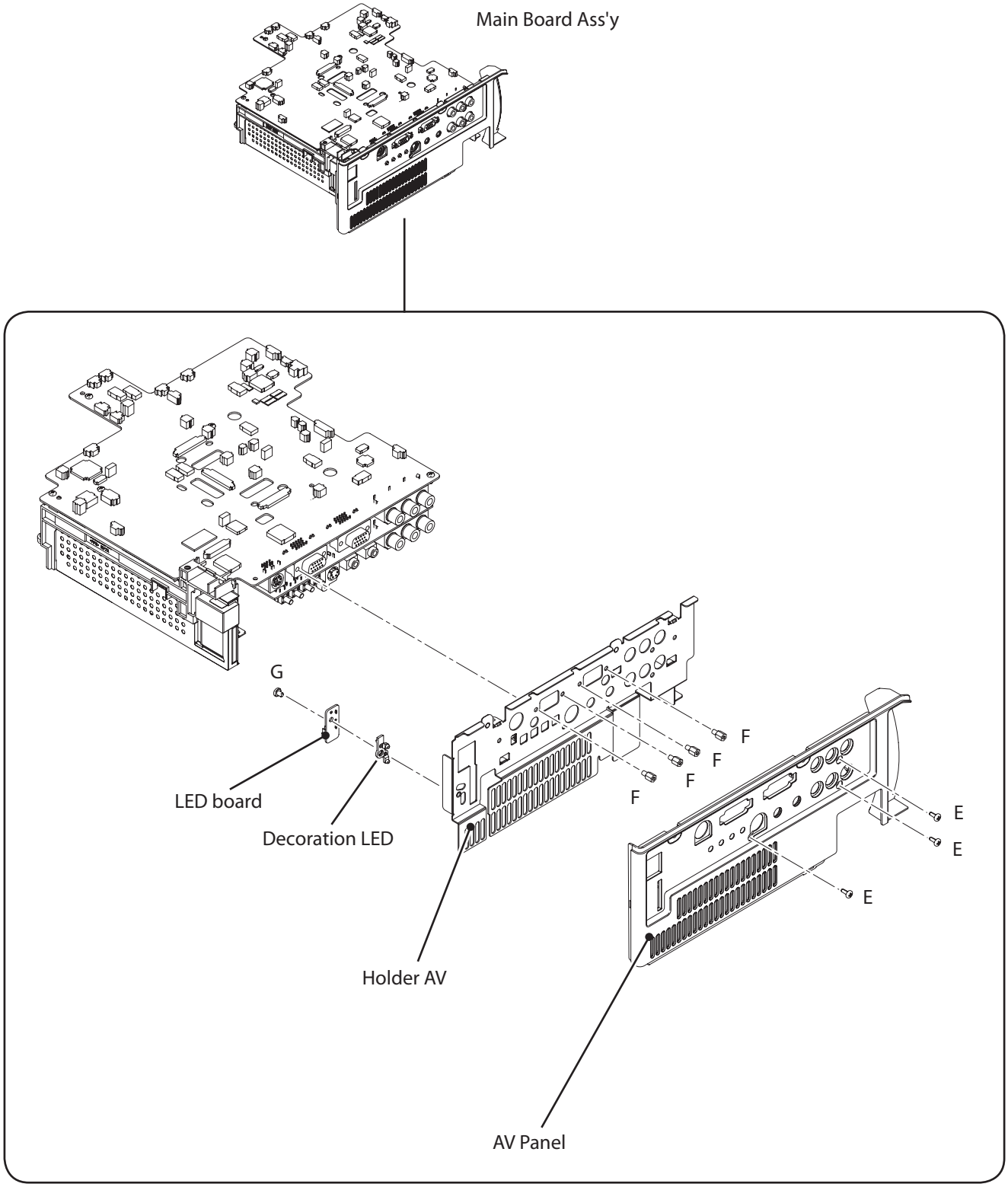


4 Main Board ass'y removal.

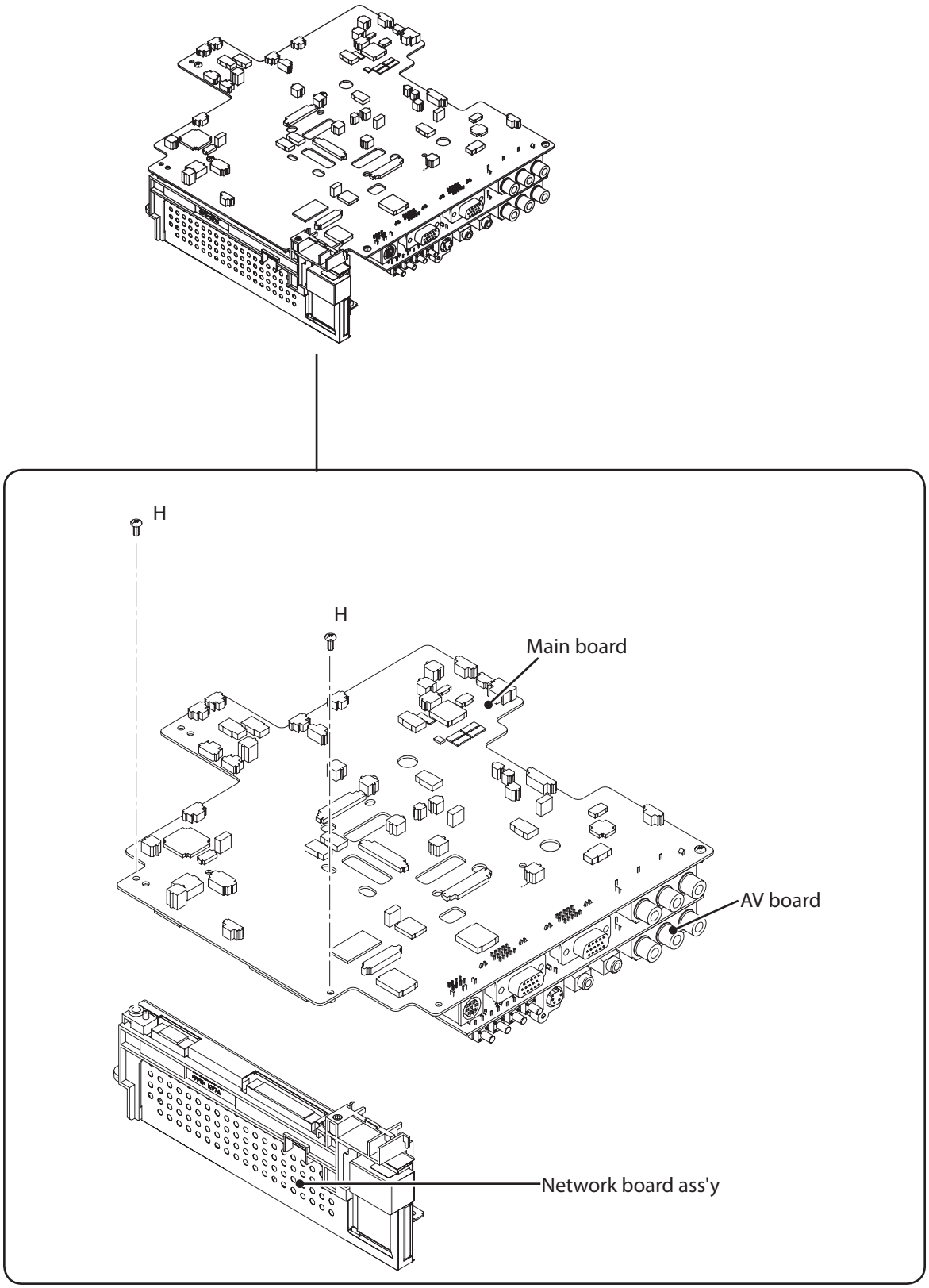
1. Remove the 2 screws-A(M2.5x6) and remove the Antenna board, Shield antenna.
2. Remove the 4 screws-B(M2.5x6), screw-C(M4x6), 2 screws-D(T3x10) and remove the Main board ass'y.



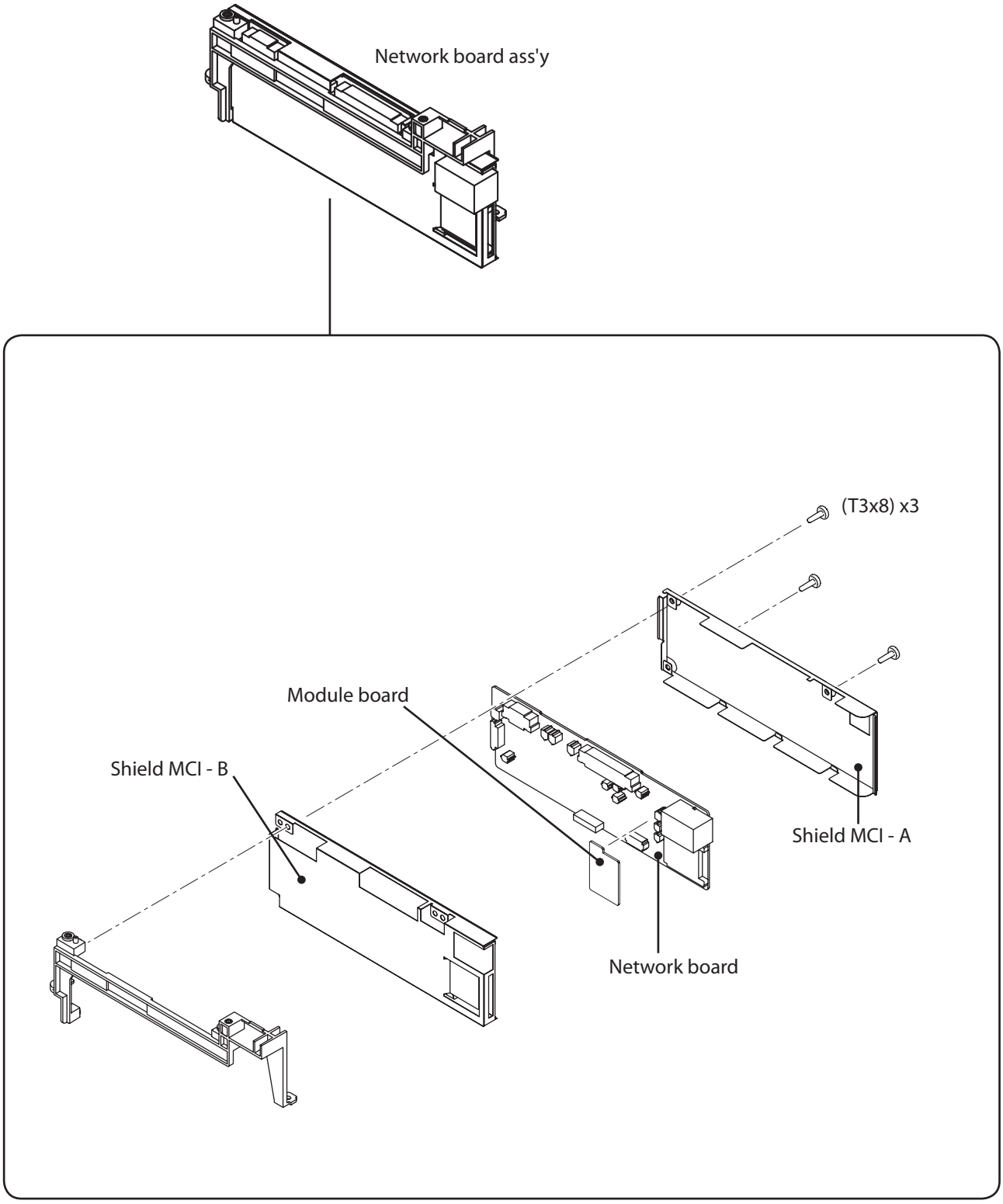
3. Remove the 3 screws-E(T3x6) and AV panel.
4. Remove the 4 nuts-F and Holder AV.
5. Remove the screw-G(M3x4), remove the LED board and remove the Decoration LED.



6. Remove the 2 screws-H(M2.5x6) and remove thenetwork board ass'y.

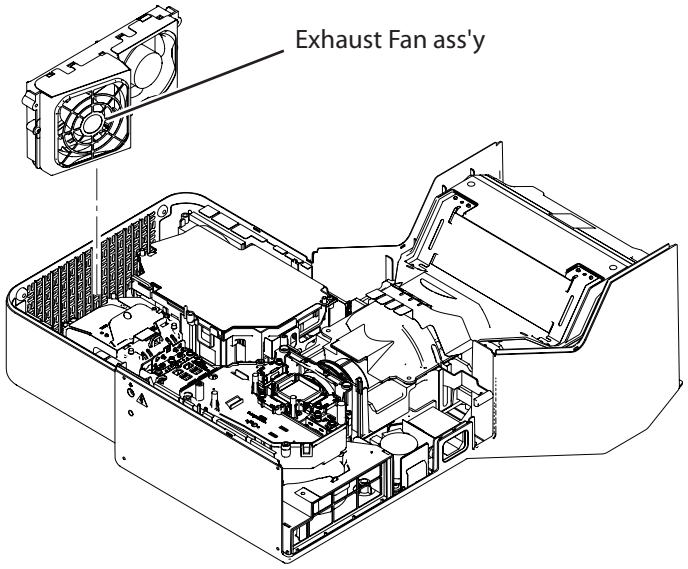


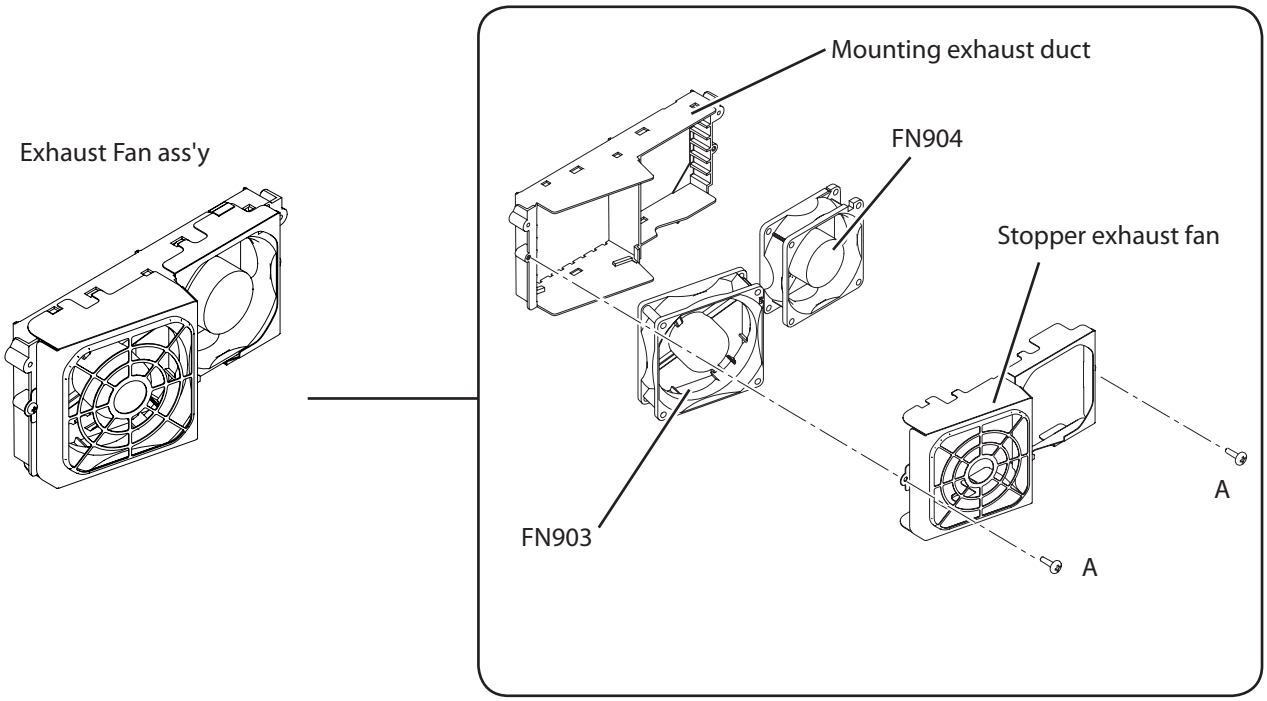
7. Remove the 3 screws(T3x8) and disassembly the network board ass'y.



5 Exhaust Fan ass'y removal.

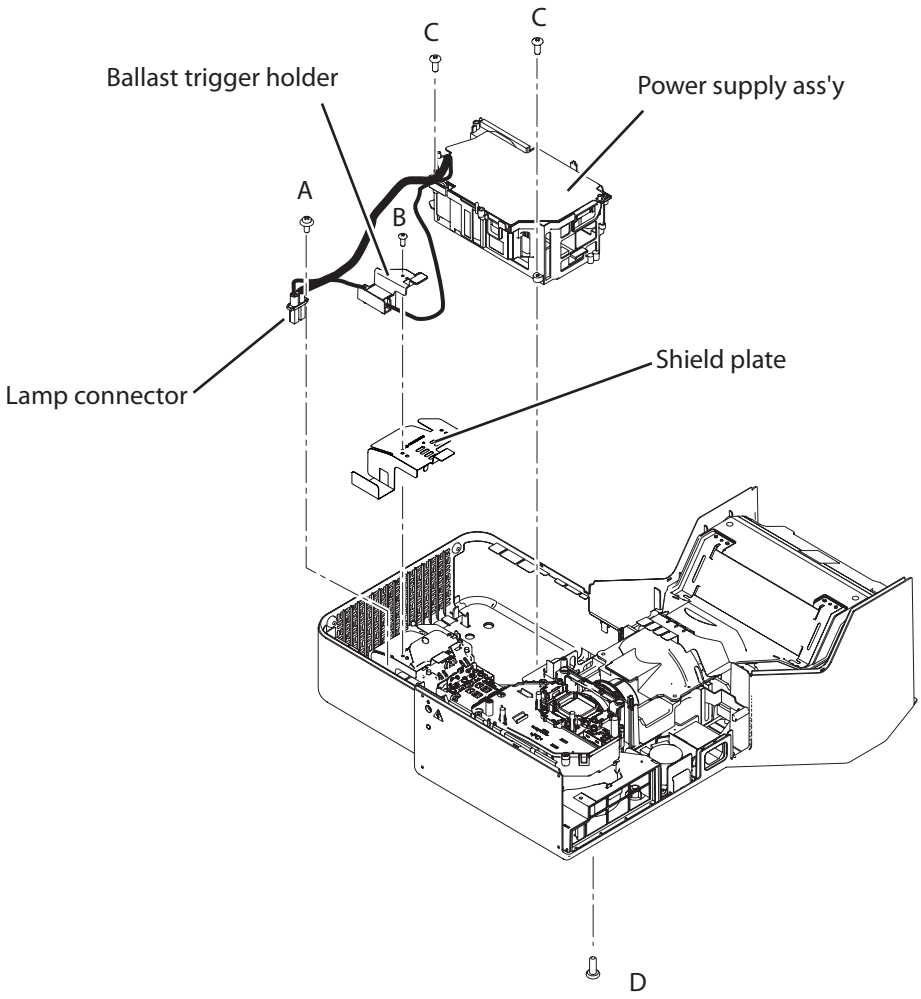
1. Remove the exhaust Fan ass'y(FN903, FN904) upward.
2. Remove the 2 screws-A(T3x8), remove the stopper exhaust Fan and remove the FN903, FN904.



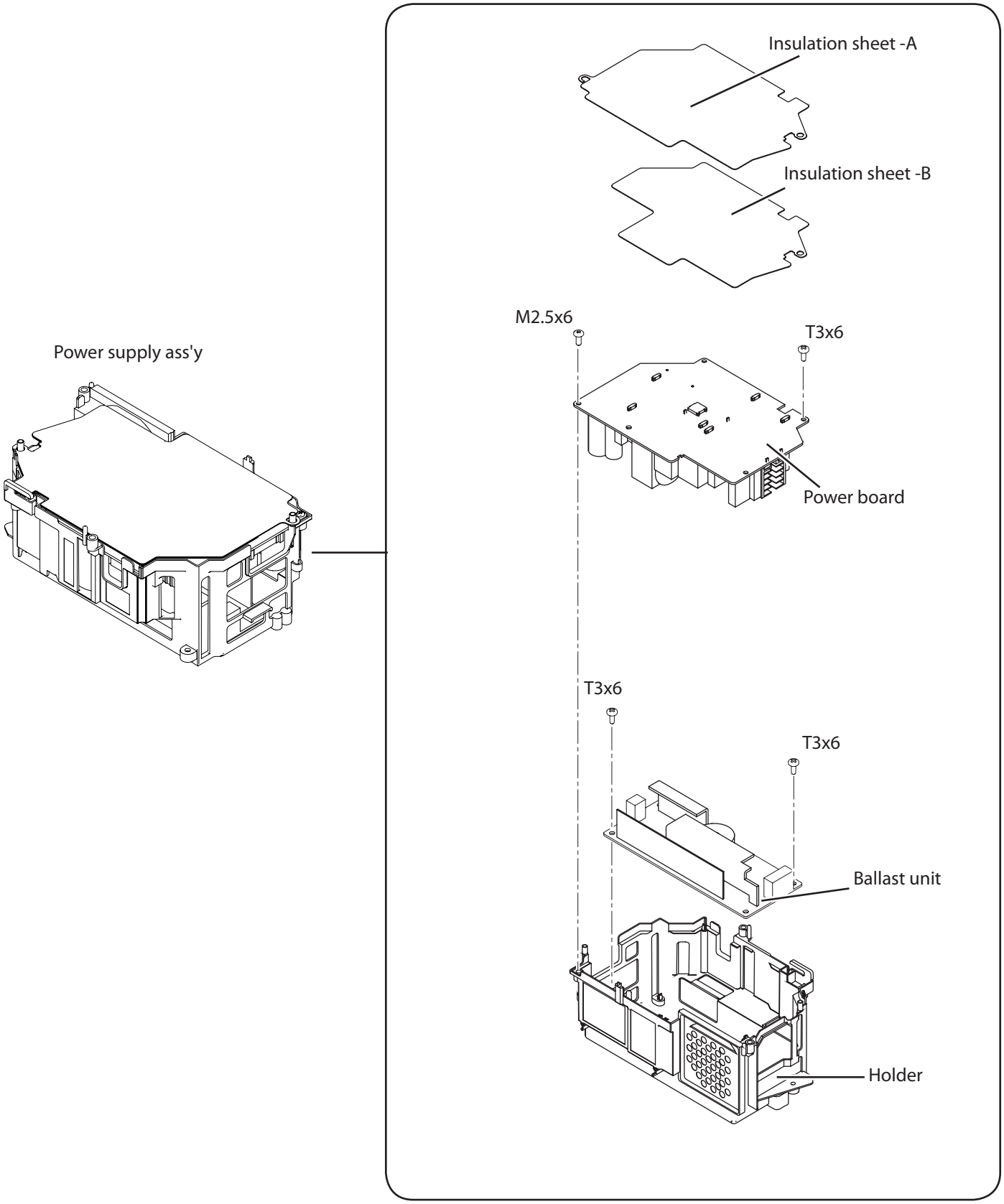


6 Power supply ass'y removal.

1. Remove the screw-A(M3x8) and remove the Lamp connector.
2. Remove the screw-B(M2.5x6) ,remove the Ballast trigger holder and shield plate.
3. Remove the 2 screws-C(T3x8), remove the screw-D(T3x8) and remove the Power Supply ass'y.

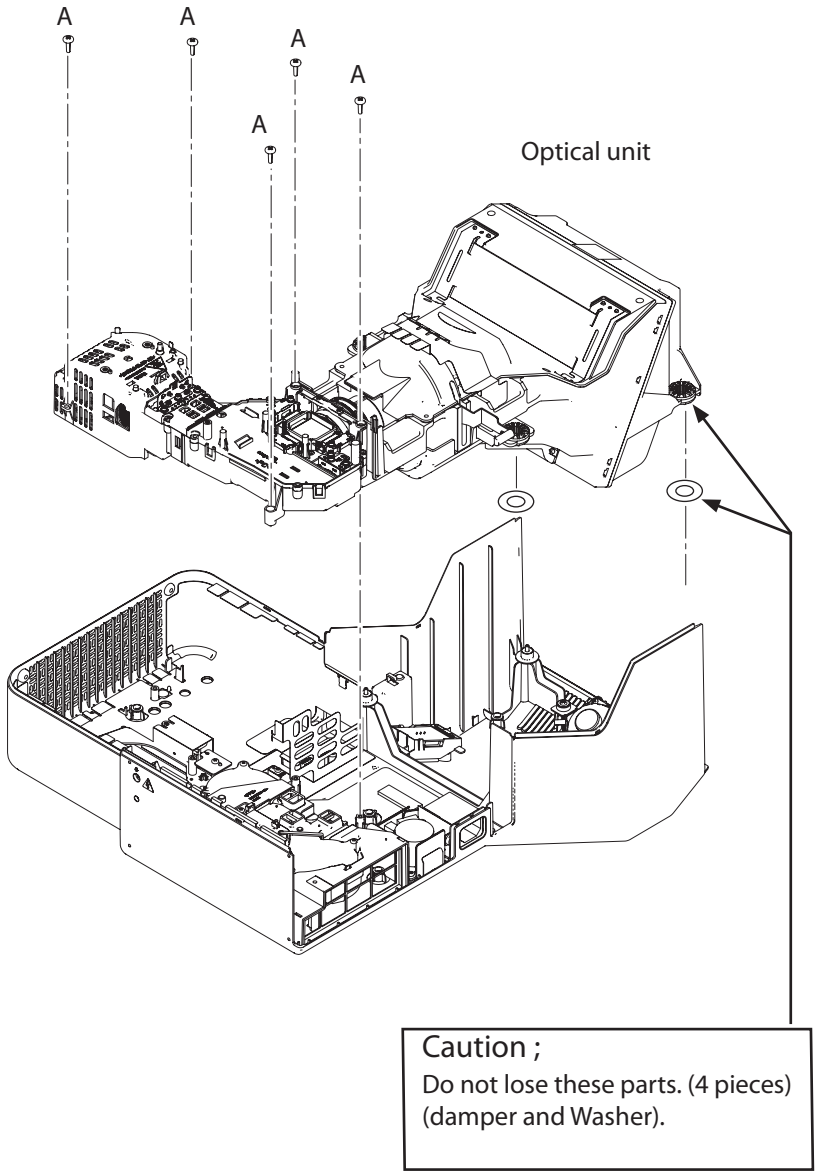


Power supply ass'y disassemble.



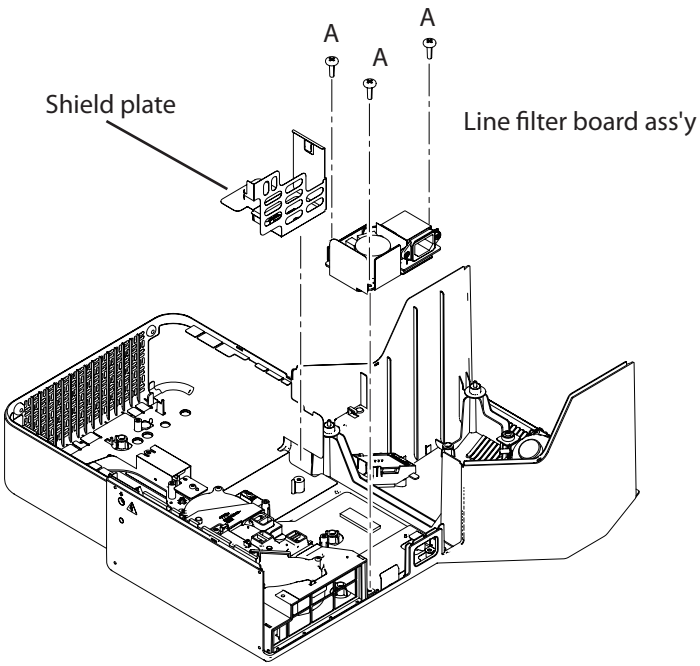
7 Optical unit removal.

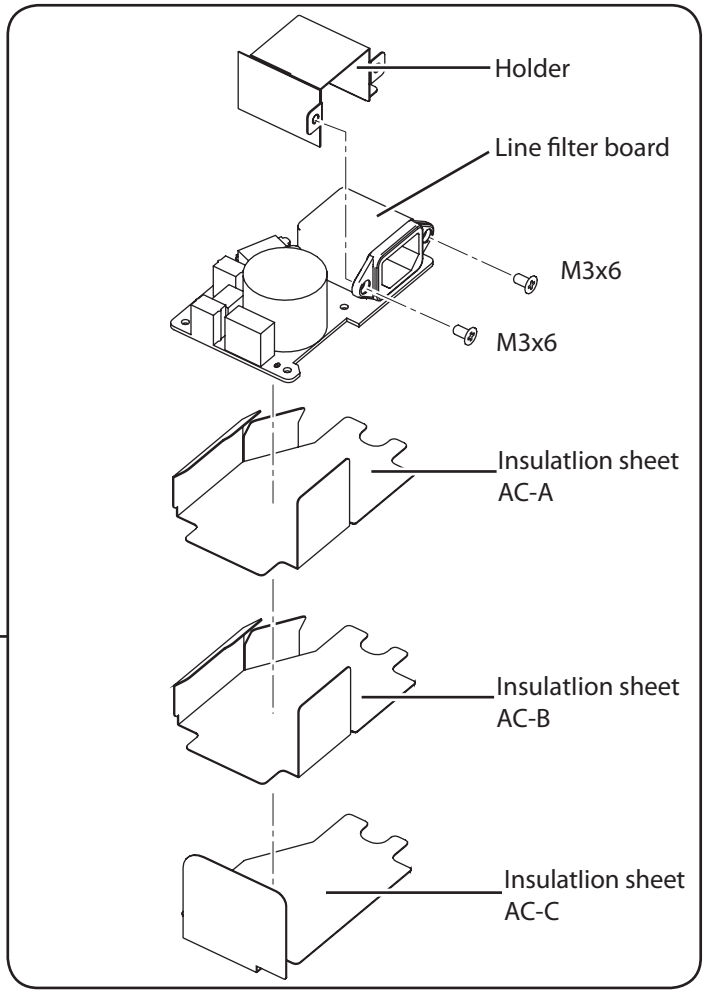
1. Remove the 5 screws-A(T3x8) and remove the Optical unit.



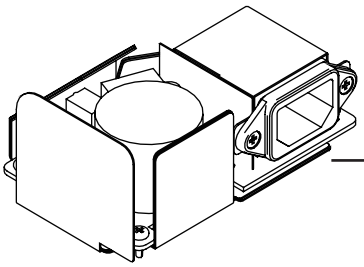
8 Line filter board removal.

1. Remove the 3 screws-A(T3x8) and remove the Line filter board ass'y.
2. Remove the Shield plate.



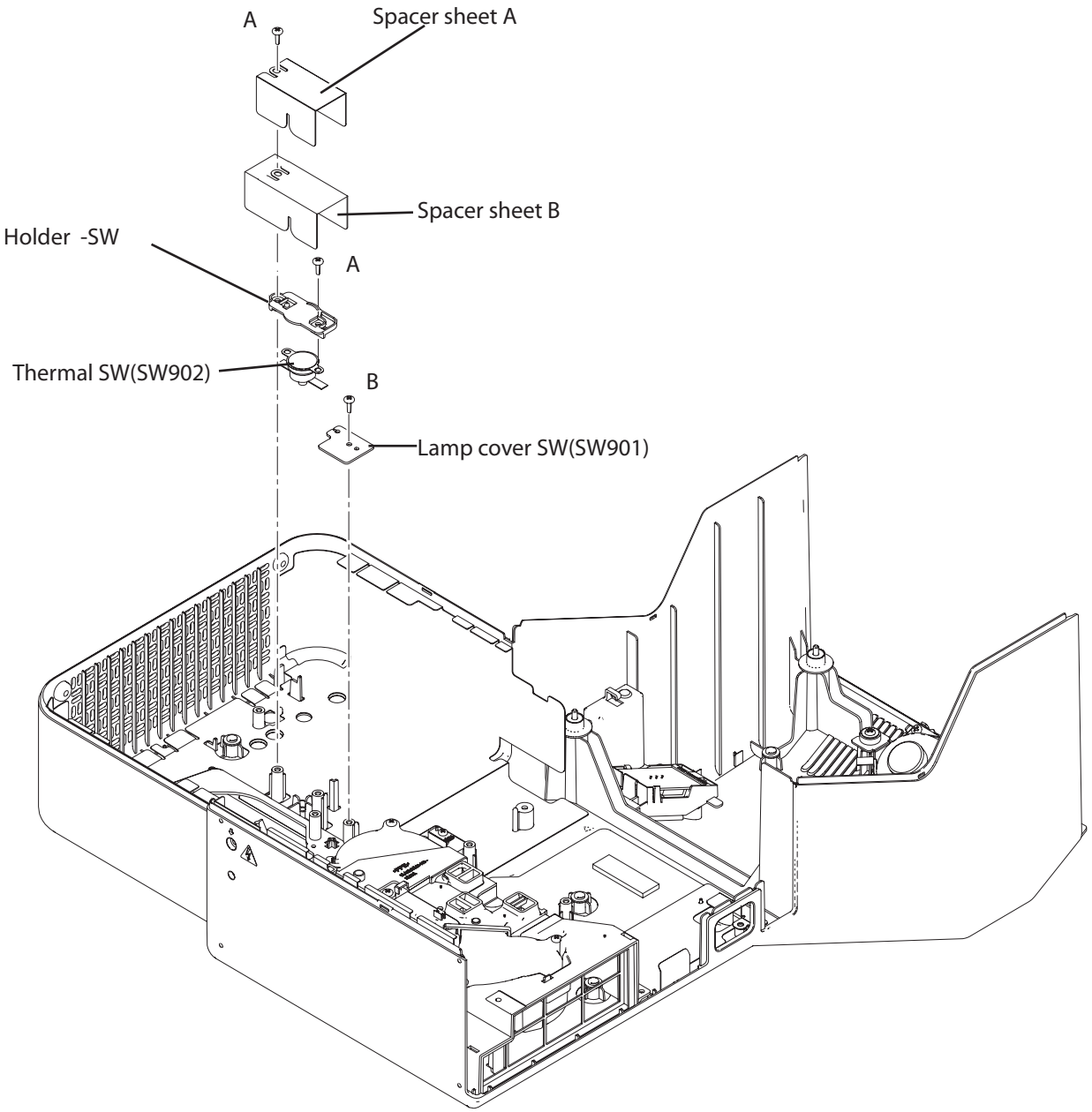


Line filter board ass'y



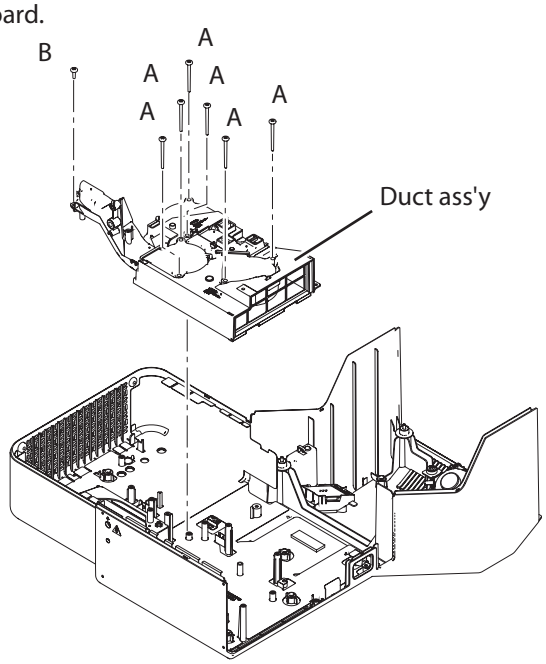
9 Lamp Cover Switch removal.

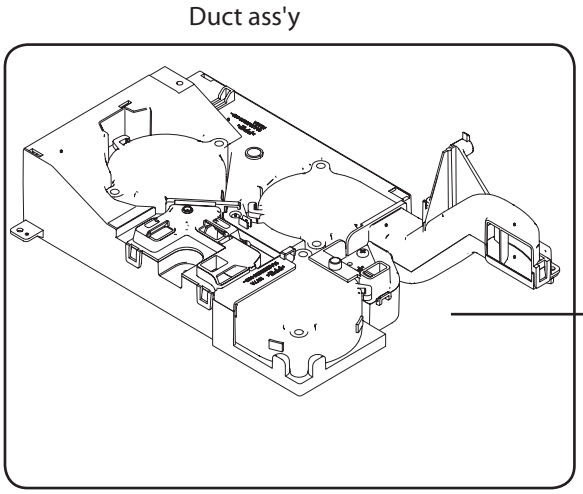
1. Remove the 2 screws-A(T3x8), remove the Spacer sheets, remove the Holder-SW and remove the Thermal Switch (SW902)
2. Remove the screw-B(T3x8) and remove the Lamp cover switch (SW901).

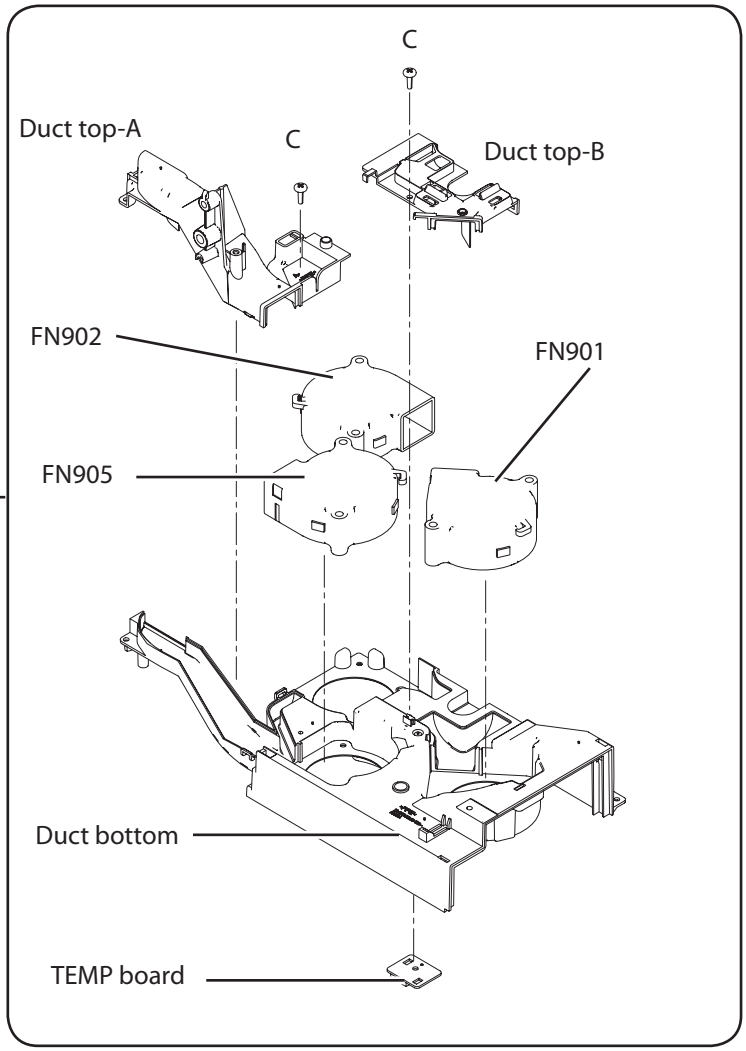


10 Duct ass'y removal.

1. Remove the 6 screws-A(T3x30), remove the screw-B(T3x8) and remove the Duct ass'y.
2. Remove the 2 screws-C(T3x8) and remove the Duct top-A, Duct top-B.
3. Remove the Fans(FN901, FN902, FN905) and Temp board.

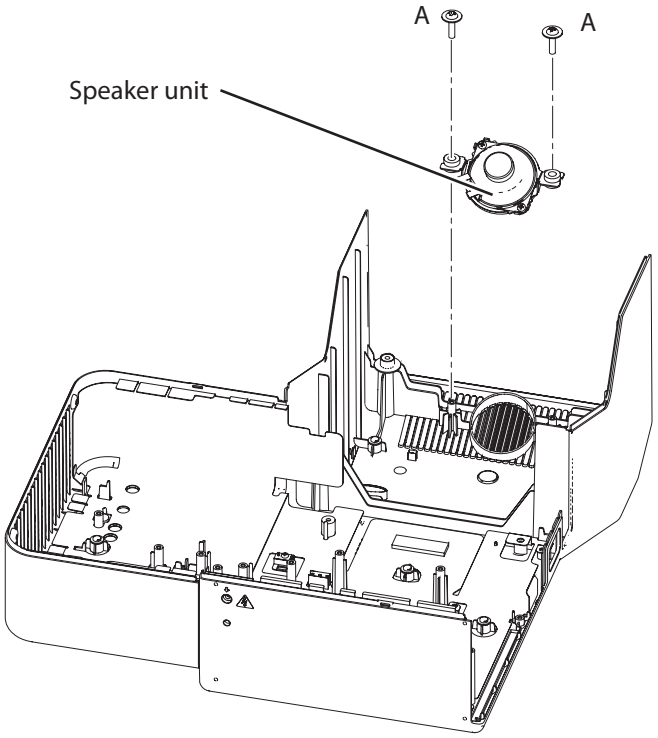


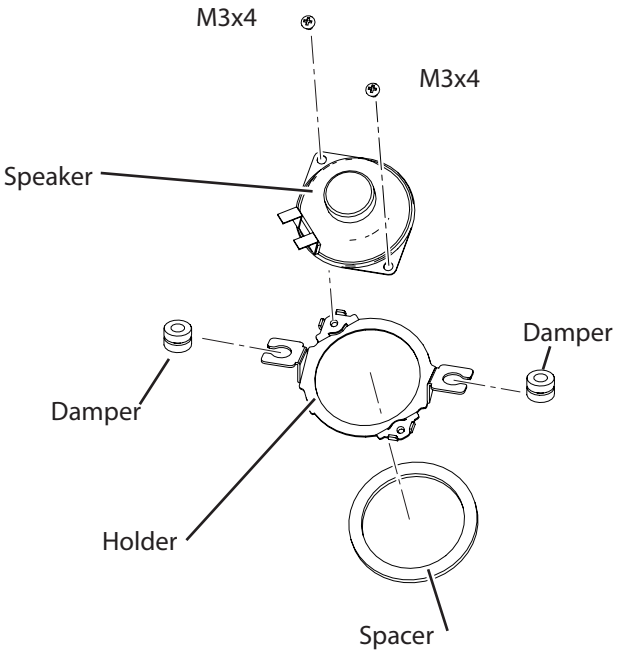




11 Speaker unit removal.

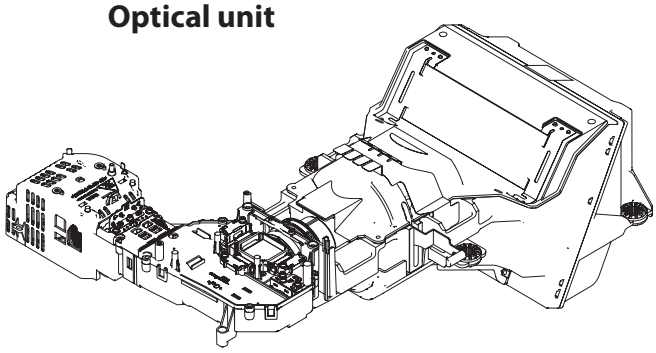
1. Remove the 2 screws-A (T3x12) and remove the speaker unit.





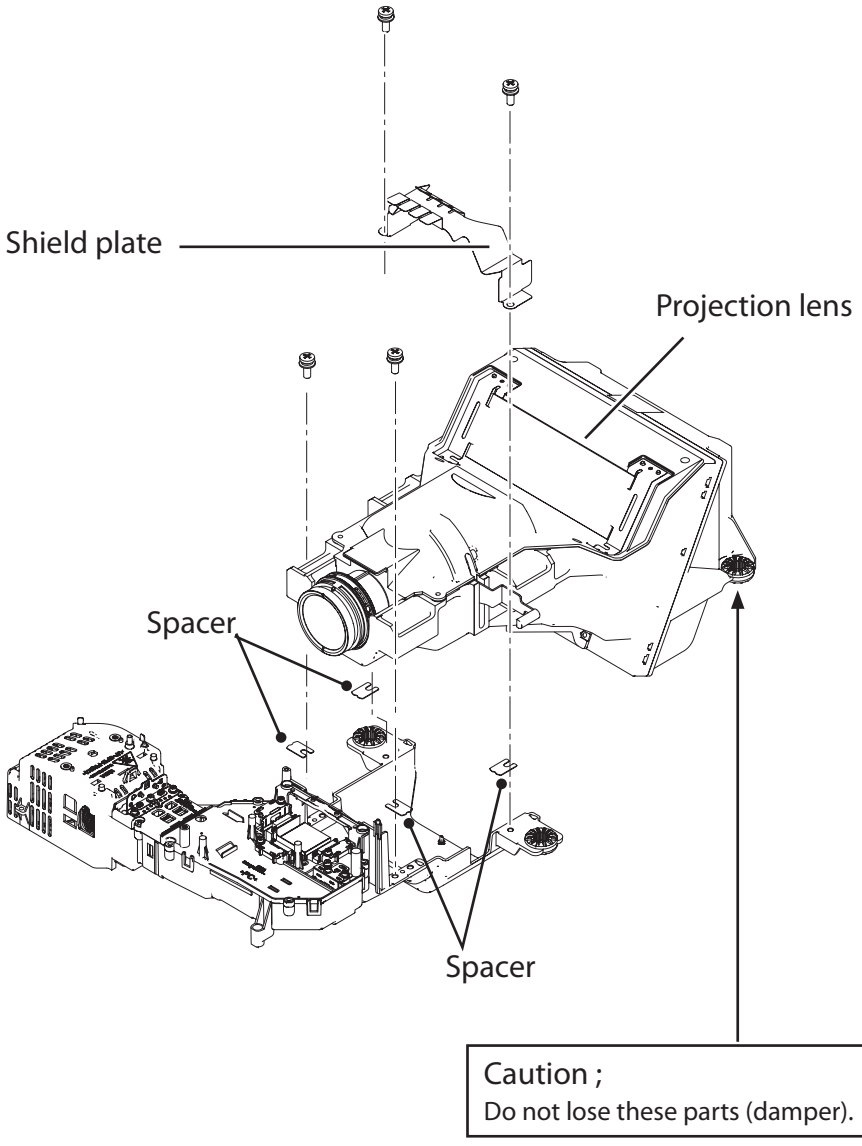
■ Optical disassemblies

Optical unit



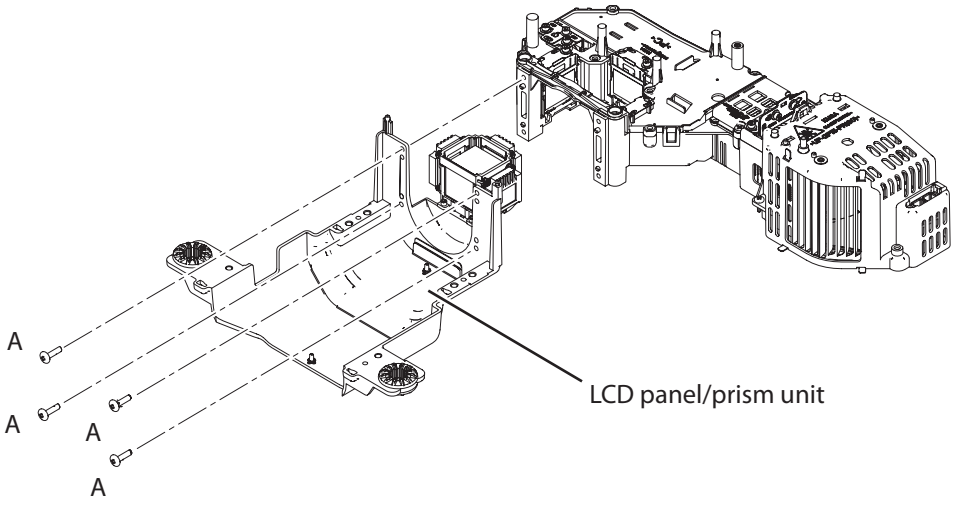
1 Projection lens removal.

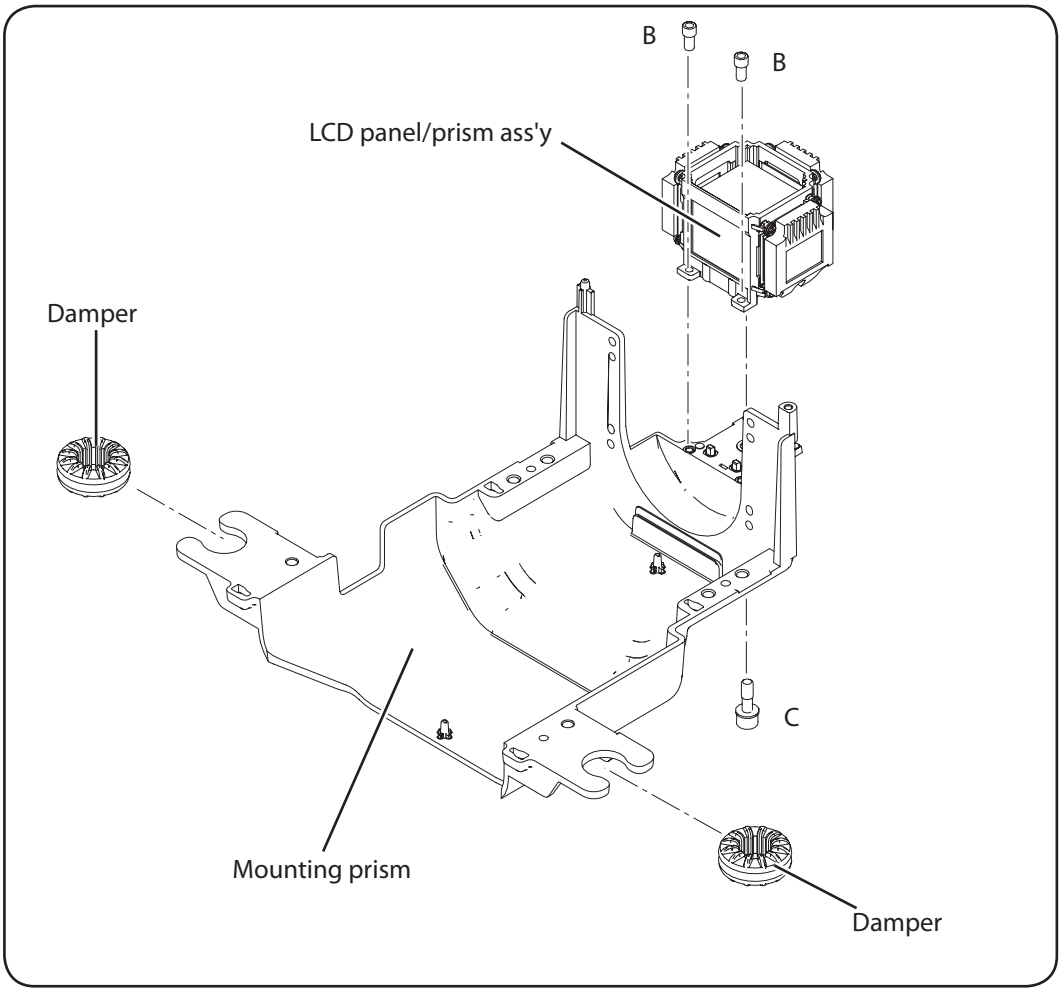
1. Remove the 4 screws (M4x12), remove the shield plate remove the 4 spacer and remove the projection lens.



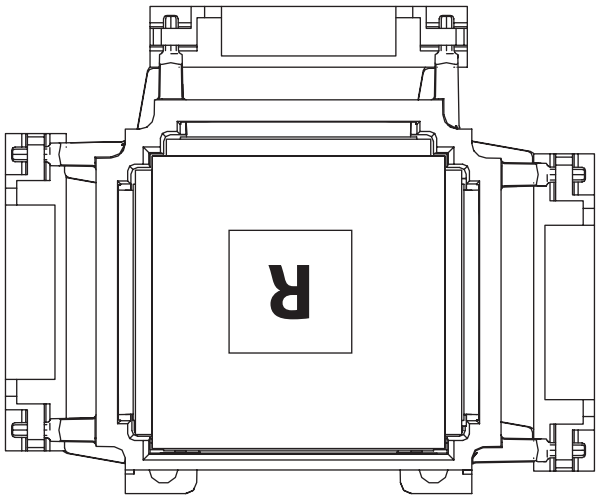
2 LCD panel/prism ass'y removal.

1. Remove the 4 screws-A (M2.5x8) and remove the LCD panel/prism unit.
2. Remove the 2 screws-B (M2.5x4), remove the screw-C (M3x10) and remove the LCD panel/prism ass'y.

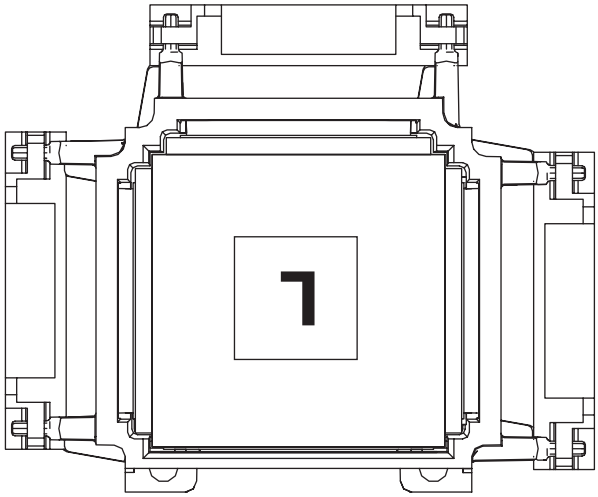




R-Type LCD Panel/Prism Ass'y



L-Type LCD Panel/Prism Ass'y



There are 2 types of LCD Panel/Prism Ass'y for this model. Either L-Type or R-Type LCD Panel/Prism Ass'y is used on the projector. Check which type of LCD Panel/Prism Ass'y is used with the figure.
The optical-characteristics is different between L-Type and R-Type LCD Panel/Prism Ass'y.

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" , "Gamma Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

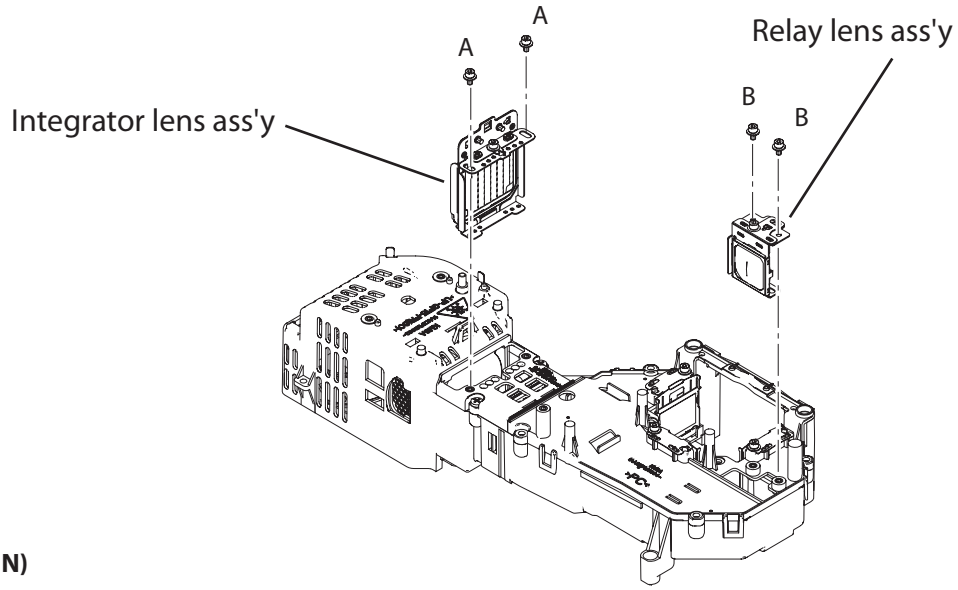
  If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "PROJECTOR SERVICE TOOL CD-ROM". The software will be supplied separately and can be ordered as follows;

PROJECTOR SERVICE TOOL CD-ROM Ver. 4.20

Service Parts No. 610 343 5596

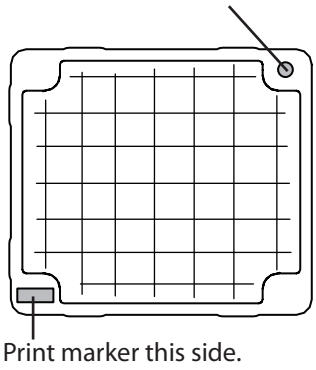
3 Integrator Lens ass'y and Relay Lens ass'y removal.

1. Remove the 2 screws-A (M2.5x5) and remove the Integrator Lens ass'y.
2. Remove the 2 screws-B (M2.5x5), remove the Relay Lens ass'y.



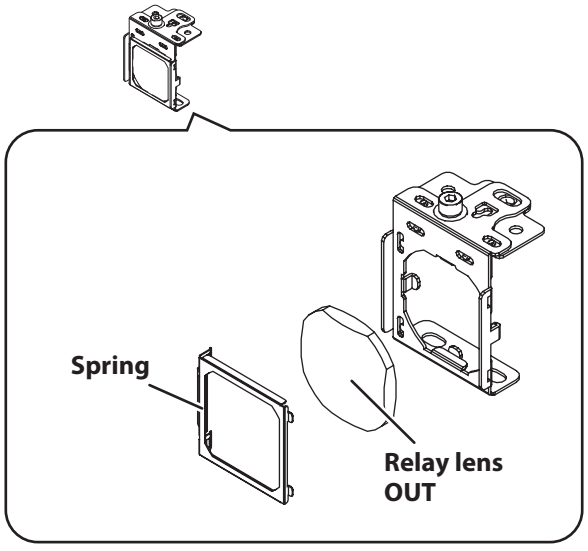
INTEGRATOE LENS (IN)

凸 marker this side.

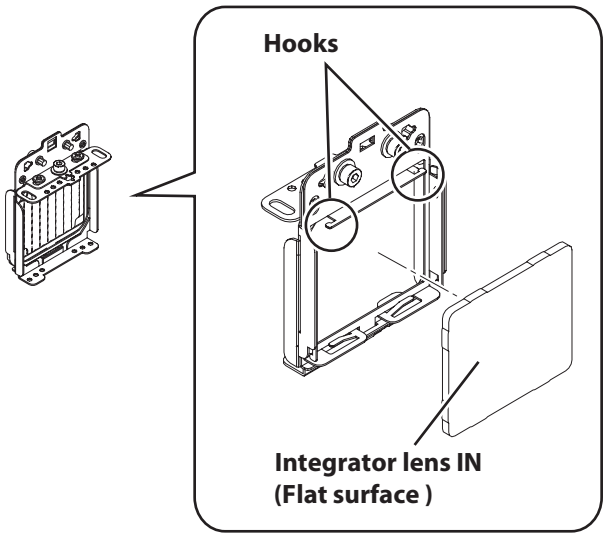


Print marker this side.

Relay lens ass'y

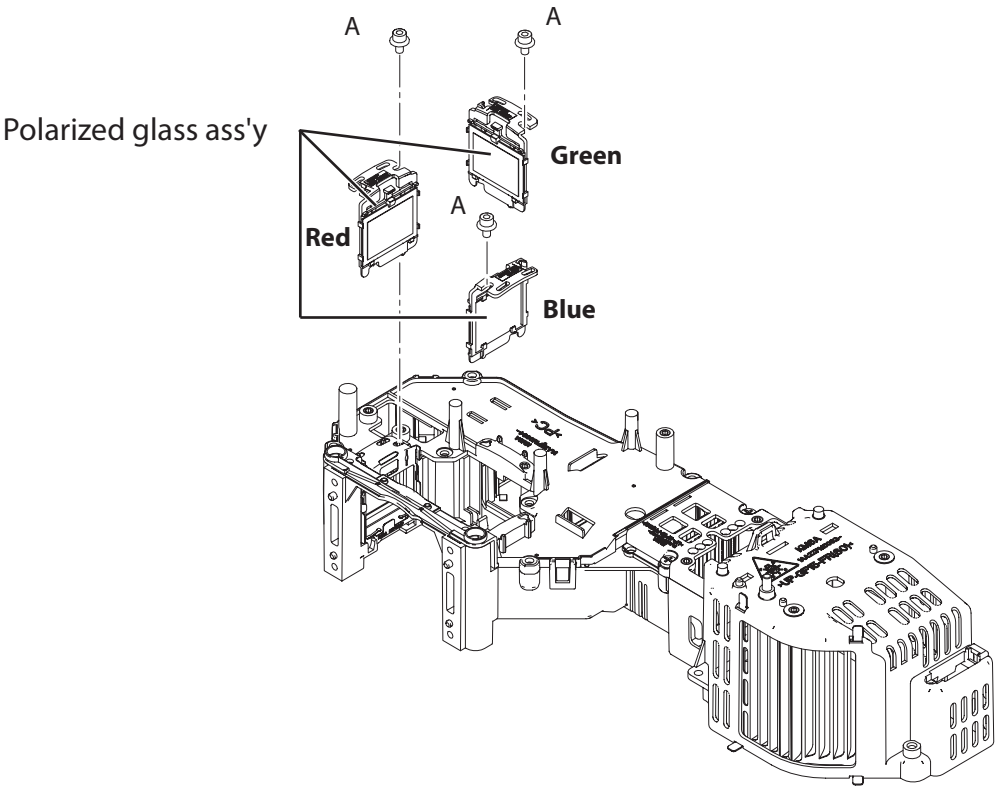


Integrator lens ass'y

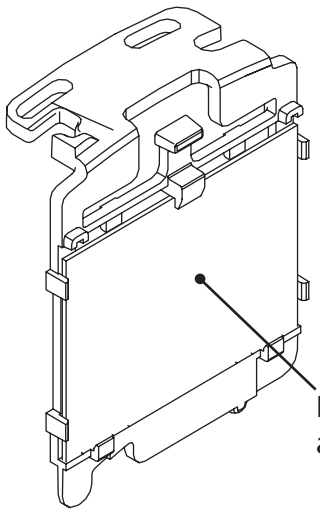


4 Polarized glass ass'y removal.

1. Remove the screw-A (M2.5x5) and remove the Polarized glass ass'y (R, G, B).



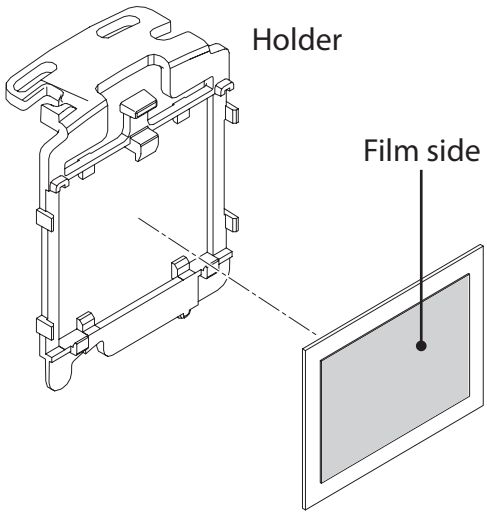
Green, Blue Polarized glass ass'y



Polarized glass ass'y

Green and **Blue** Polarized glass ; Do not disassemble

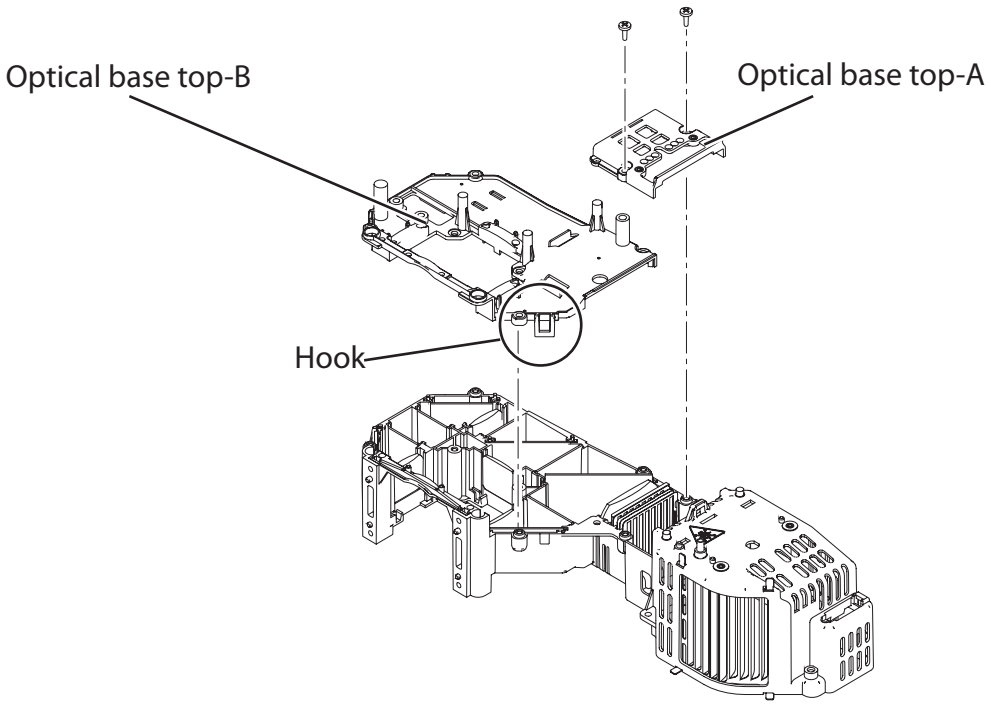
Red Polarized glass ass'y



Polarized glass-IN

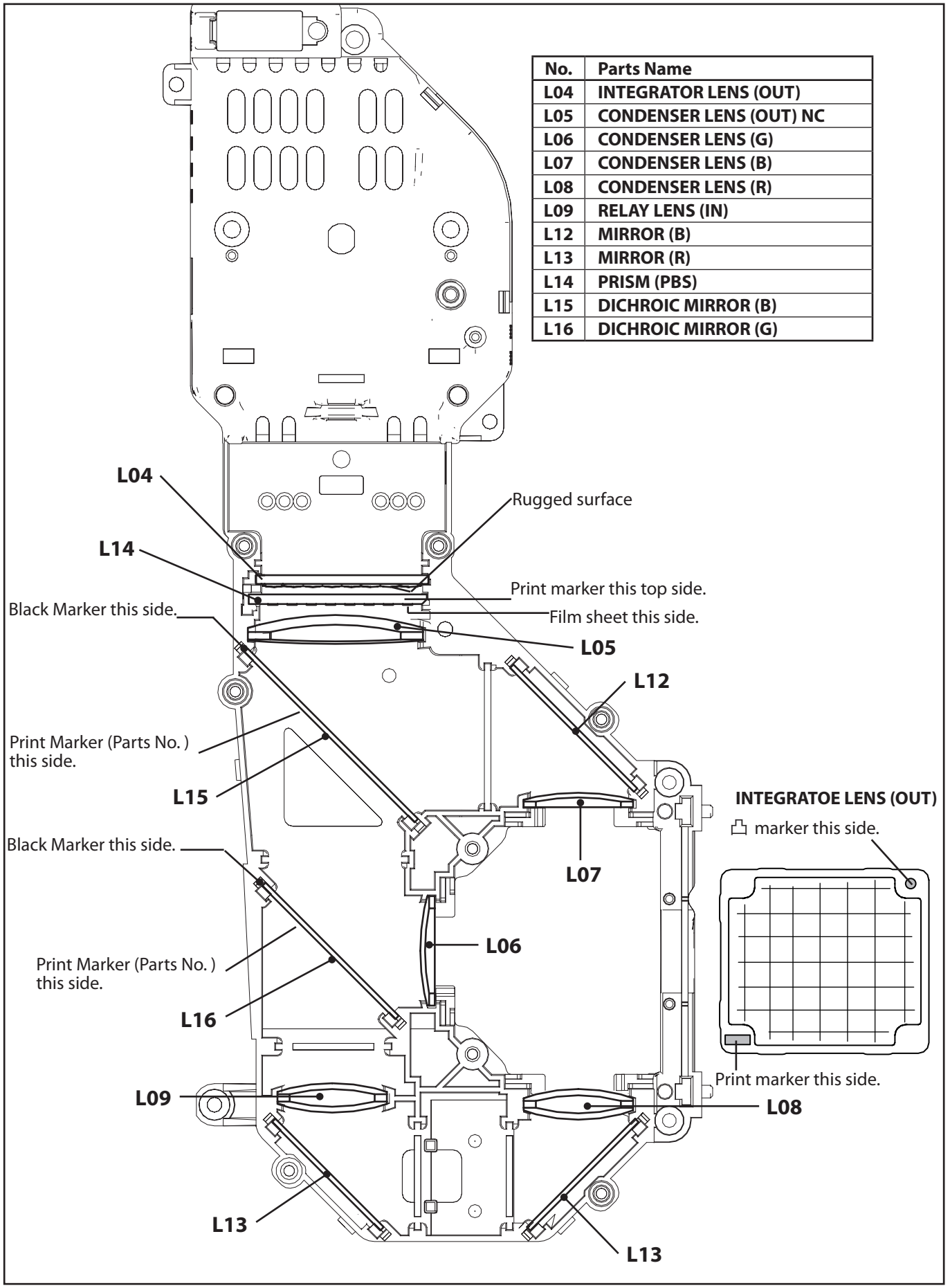
5 Optical base top removal.

1. Remove the Optical base top-B.
2. Remove the 2 screws (T3x8) and remove the Optical base top-A.



■ Optical Parts Location and Direction

No.	Parts Name
L04	INTEGRATOR LENS (OUT)
L05	CONDENSER LENS (OUT) NC
L06	CONDENSER LENS (G)
L07	CONDENSER LENS (B)
L08	CONDENSER LENS (R)
L09	RELAY LENS (IN)
L12	MIRROR (B)
L13	MIRROR (R)
L14	PRISM (PBS)
L15	DICHROIC MIRROR (B)
L16	DICHROIC MIRROR (G)



■ Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts								
		LCD/ Prism Ass'y	Integrator Lens (IN)	Relay Lens (OUT)	Polarized Glass			Projection lens	Power Board	Main Board
					R	G	B			
Optical Adjustments	Contrast Adjustment									
	R-Contrast adjustment	❍			●					
	G-Contrast adjustment	❍				●				
	B-Contrast adjustment	❍					●			
	Integrator lens adjustment	❍	●							
	Relay lens-out adjustment	❍		●						
	Projection lens focus adjustment							●		
	Fan control adjustment								●	●
	Auto calibration adjustment [PC]									●
	Auto calibration adjustment [Video]									●
	Auto calibration adjustment [Component]									●
	Common center adjustment	●								●
	Gamma corection Adjustment	❍								❍
	White uniformity adjustment	❍								❍
	Read/Wright of LCD panel gamma data	❍								❍

■ Note on Main Board Replacement

Take the following setting when the main board is replaced.

- Adjustment ship data setting (Color Shading Correction Setting, Gamma Correction Setting)

Adjustment Ship Data Setting
This projector stores "Color Shading Correction Data" and "Gamma Correction Data" in the memory (IC1391) on the main board. Those shipping data have been setup according to the optical characteristics of the mounted LCD panels preciously in the factory. When replacing the main board, you need to read out the those setting data stored in the memory ICs on the previous main board and write down them into the memory ICs on the new main board.

By this way, the projector enables to reproduce the picture which has properly adjusted color shading correction and gamma correction. If it is not possible to read out the data, or replace the LCD/Prism assy , you seed to write the initial data which is setting the typical characteristics of the LCD panel into the flash memory on the new board.
For further details, refer to the operation manual of the software [PROJECTOR SERVICE TOOL v4.2].

This software is including in the service CD -RO M listed below;

PRO JECTOR SER VICE TO L CD -RO M Ver4.20
SER VICE CODE : 610 343 5596

■ Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the "Mechanical Disassembly".
Adjustments require a 2.0mm hex wrench and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect FPC cables of LCD panels on the main board.
Optical adjustment requires a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors on the main board, because the projector cannot turn on due to operate the power failure protection.

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING

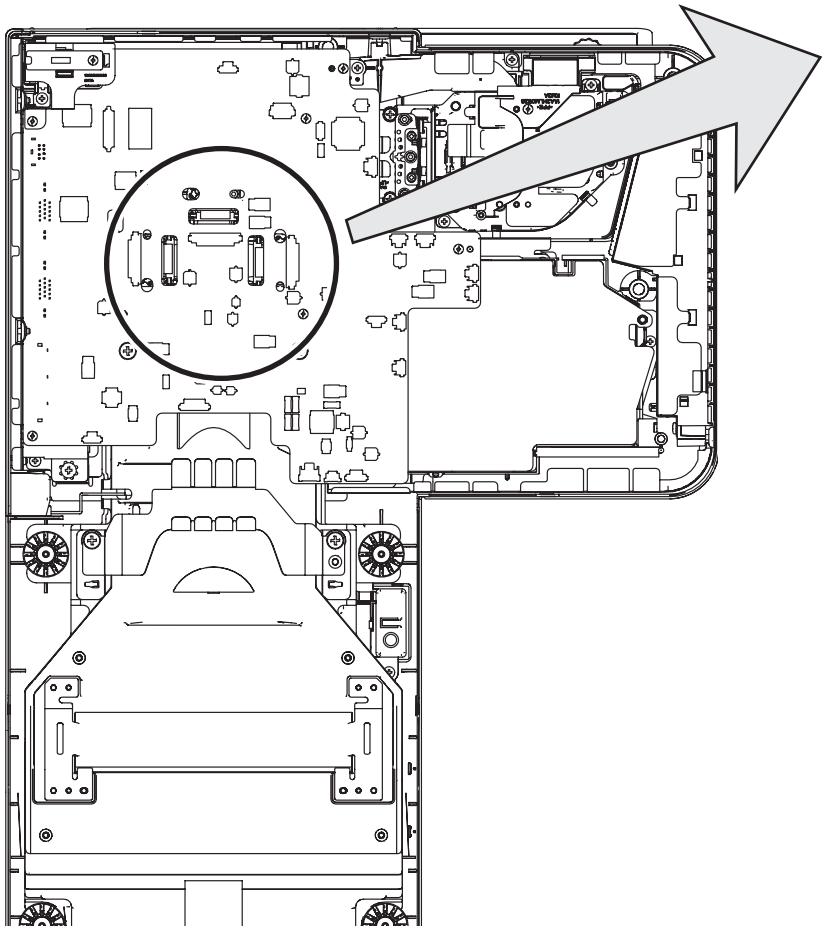
CAUTION: To prevent suffer of UV radiation, those adjustment must be completed within 25 minutes.

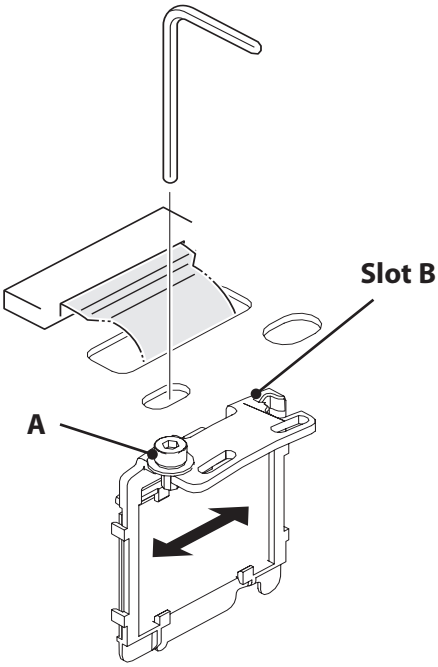
Contrast adjustment

[Before Adjustment]
- Input a 100% of black raster signal.

1 Loosen a screw **A (Fig.1)** on the polarized glass mounting base which you intend to adjust.
2 Adjust the slot **B** to obtain the darkest brightness on the screen by using a slot screwdriver.
3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.





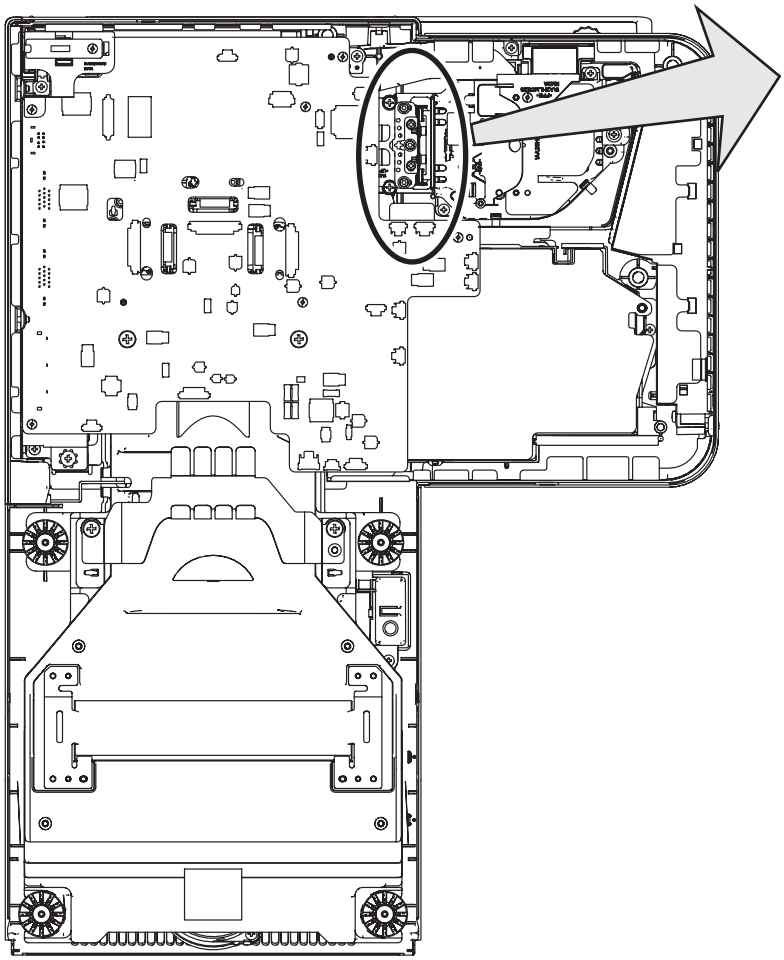
Polarized glass mounting base

Fig.1

Integrator lens adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of integrator lens assy to make color uniformity in white.
 1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 1 screw **A** , and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
 2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 2 screws **C**, and insert a slot screwdriver into the slot **D** and adjust color uniformity in white by turning a slot screwdriver up or down.
4 Tighten screws **A** and **C** to fix the Integrator lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.



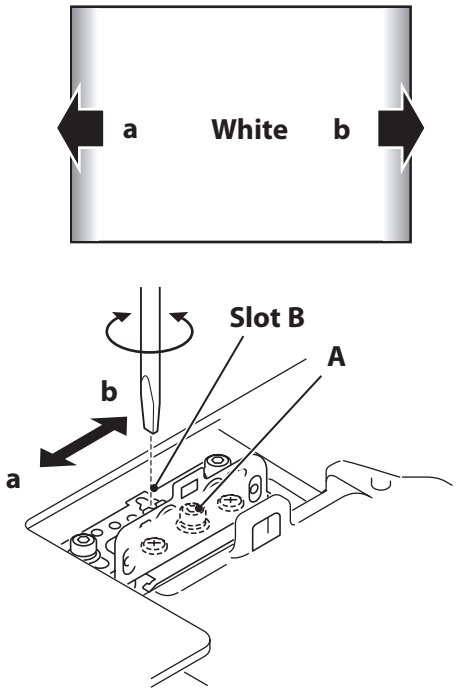


Fig.2-1
Moving of slot B

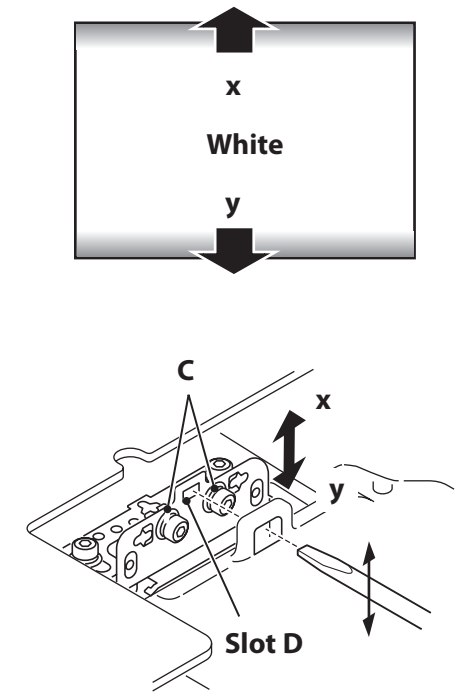
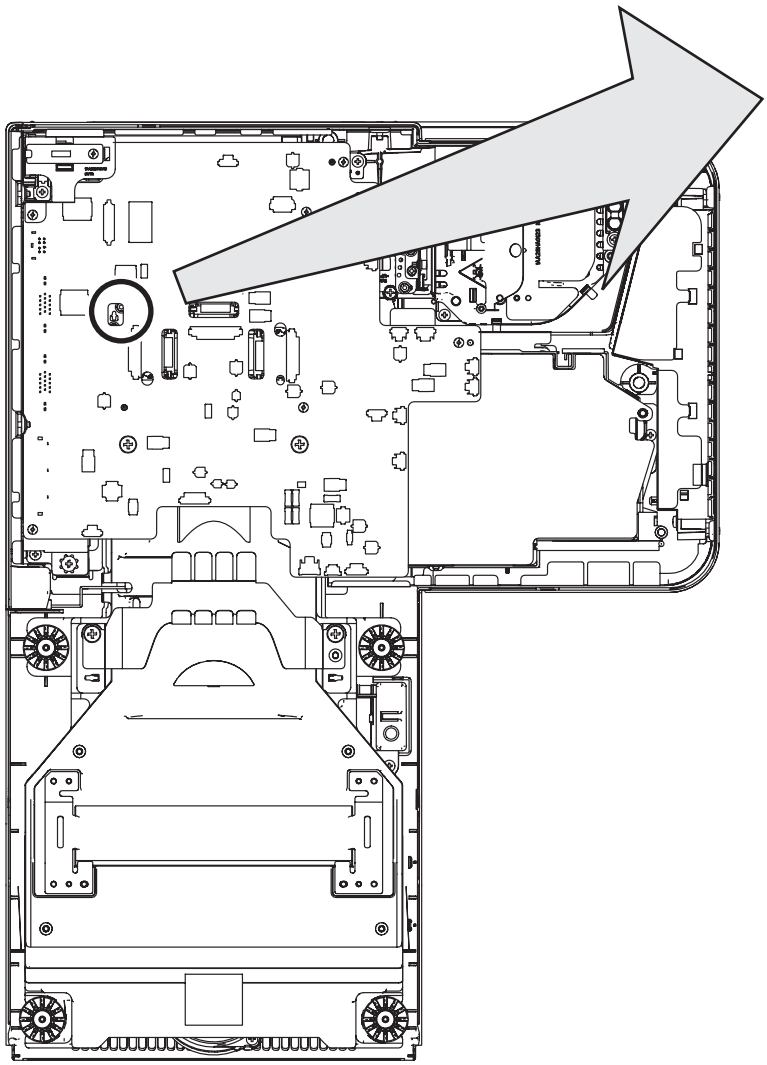


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

1 Turn the projector on by a state of without FPC cables.
2 Project all of lights on the screen.
3 Adjust the adjustment base of relay lens assy to make color uniformity in white.
If the shading appears on the left or right of the screen as shown in **Fig.3**, loosen 1 screw **A**, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.
4 Tighten the screw **A** to fix the relay lens unit.



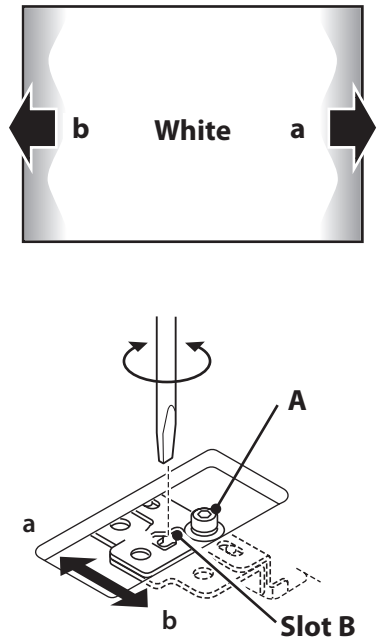


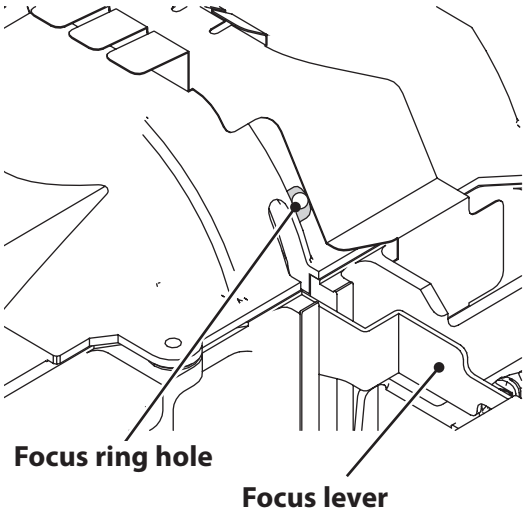
Fig.3
Moving of slot B

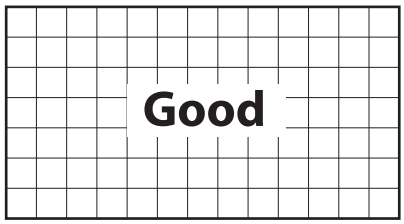
Projection lens focus adjustment

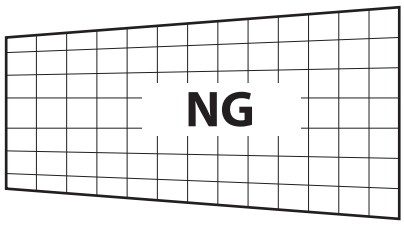
[Before Adjustment]

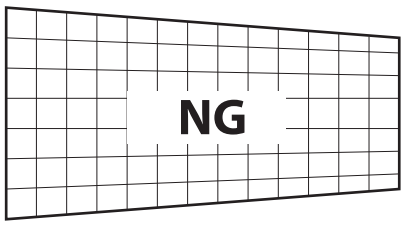
1 The projector is set from the screen to 8 cm.
2 The hole of the focus ring is set to the position of figure by operating the focus lever. (Screen size 78")
3 Input a cross pattern.
4 The position of the projector is matched so that the picture may become a rectangle. (Do not become a trapezoid.)

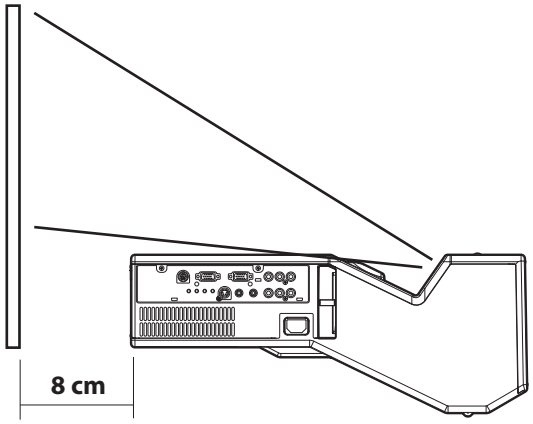
Projection lens

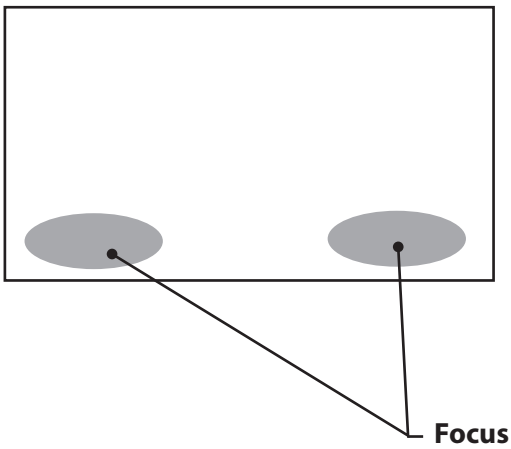












1 Loosen the 4 screws-**A** (**A1, A2, A3, A4**).

2 Right and left focus under the screen is adjusted by using slot **B**. (Pre-adjustment)

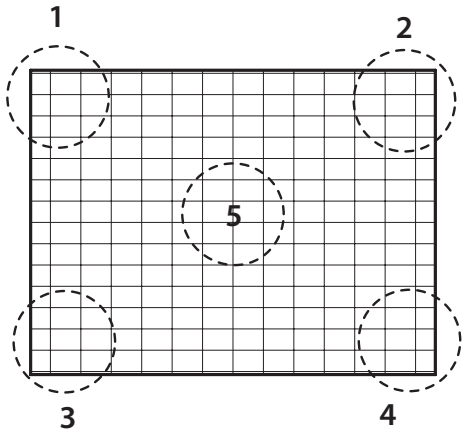
3 The screws-**A1, A2** are lightly tightened and temporary is fixed.

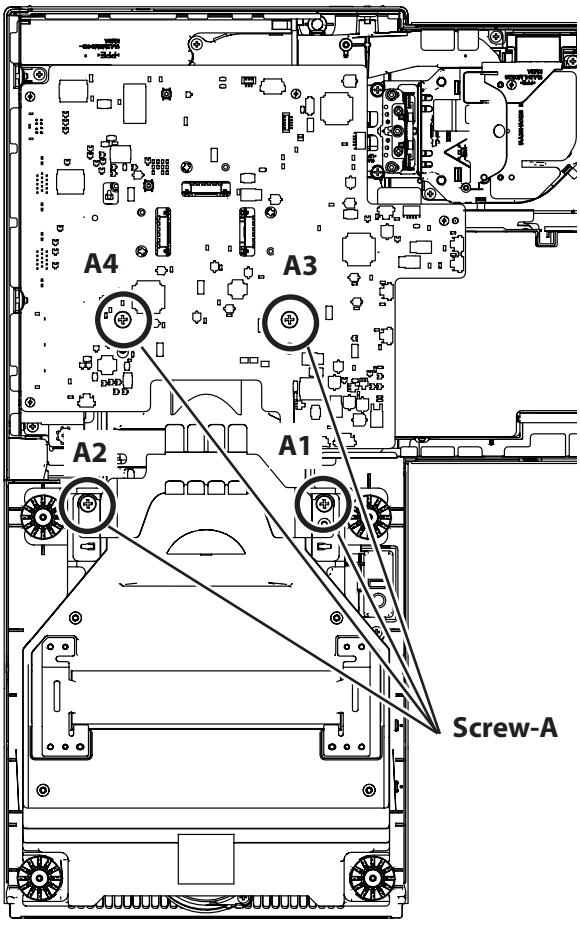
4 Focus on the entire screen is adjusted.

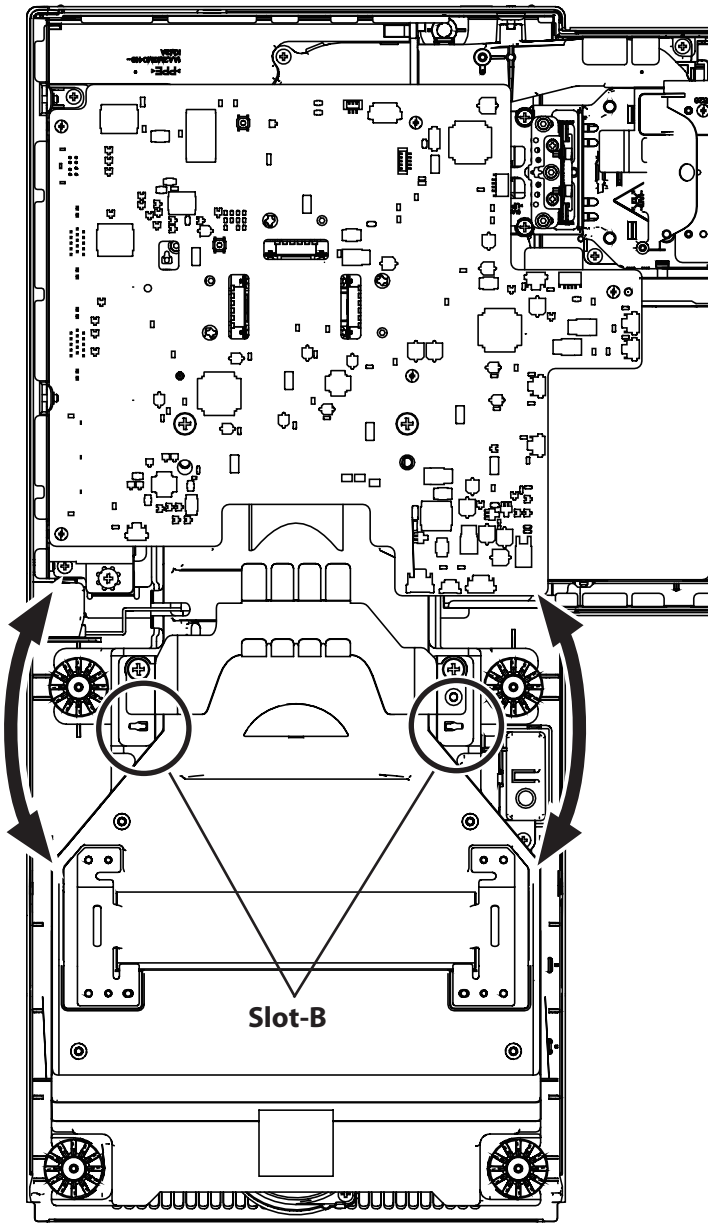
5 Tighten the 4 screws-**A** (**A1, A2, A3, A4**).

Caution :

Confirm focus after it tightens up the screws.







Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

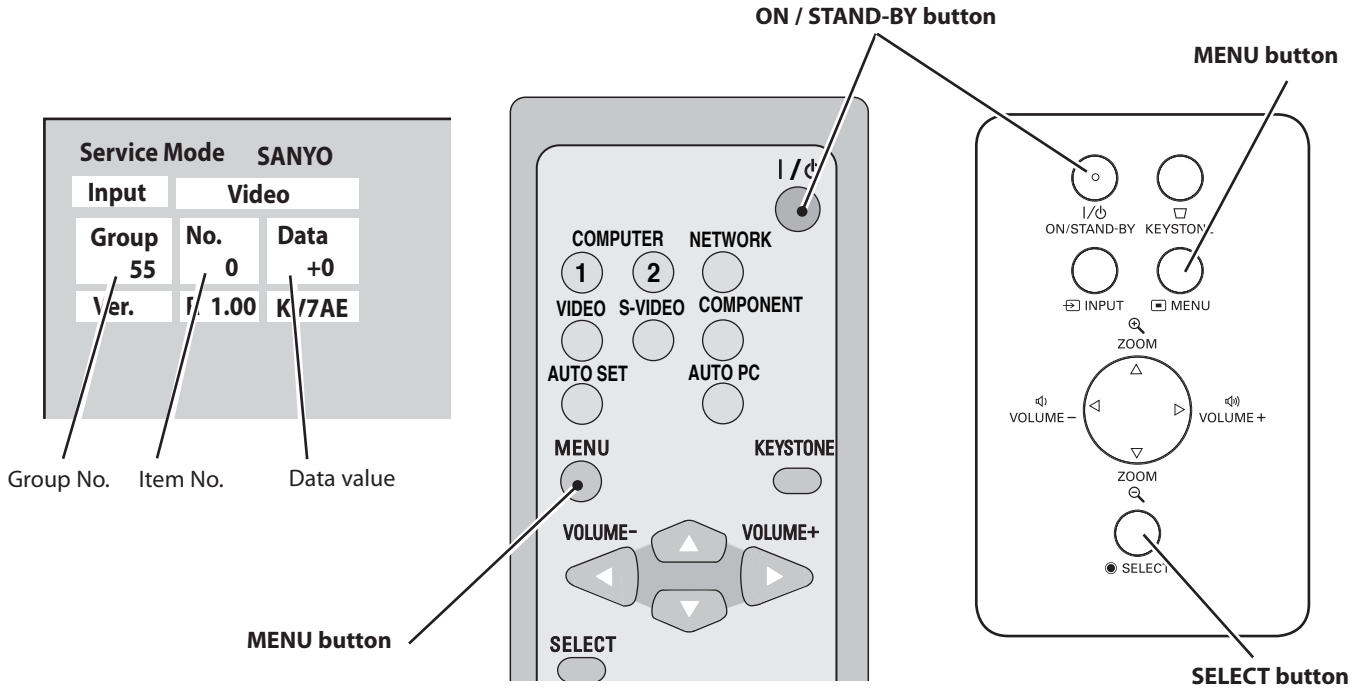
To enter the "Service Mode", press and hold the **MENU** and **SELECT buttons** on the projector simultaneously for 3 seconds. Or press and hold the **MENU** button on the remote control unit for more than 20 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. by pressing the **MENU button** (increase) or **SELECT button** (decrease), and select the adjustment item no. by pressing the pointer ▲ or ▼ **button**, and change the data value by pressing the ◀ or ▶ **button**. Refer to the "Service Adjustment Data Table" for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY button**.



Memory IC (IC1391) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, the re-adjustments are required following to the "Electrical Adjustments".
The data of lamp replacement counter is stored in the Memory IC.
Please note that the lamp replace counter will be reset when the memory IC is replaced.
(Lamp replace counter cannot be set to the previous value.)

● **Caution to memory IC replacement**

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the "Electrical Adjustments".
Please note that in this case the lamp replace counter will be reset.

● **Caution of Main Board replacement (in the case memory IC is not defective)**

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the "Electrical Adjustments".
In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

Note: **Before adjustment, turn on the projector more than 10 minutes.**

WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.

CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

[Adjustment Condition]

- Input signal

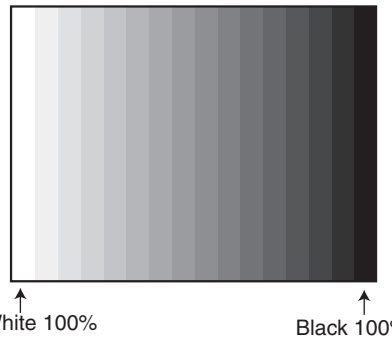
Video signal ..... 1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)

Component Video signal .....0.7Vp-p/75Ω terminated, 8 color 100% color bar or 16 steps gray scale (Component video signal)

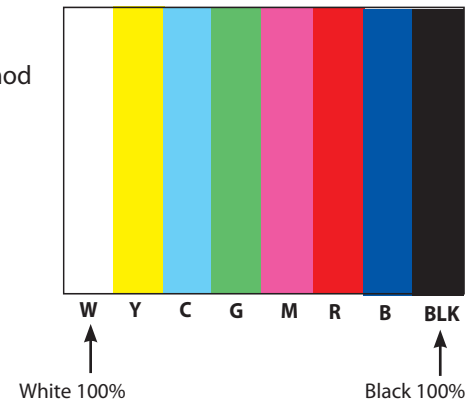
Computer signal .....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern

- Image control mode.....“STANDARD” mode unless otherwise noted.

16 steps gray scale pattern



8 color 100% color bar



Note:

* Please refer to “Service Adjustment Menu Operation” for entering the service mod

1. Fan minimum voltage adjustment

Equipment Digital voltmeter

1. Enter the service mode.
2. Change data values of each test points to adjust the fan minimum output voltage.

Item no.	Fan Location	Test Point	Adjustment value
250 - 0	FN901/902	TPFANA	**5.0** ±0.1Vdc
250 - 2	FN903/904	TPFANB	**5.0** ±0.1Vdc
250 - 4	FN905	TPFANC	**5.0** ±0.1Vdc

GND TE501

2. Fan maximum voltage adjustment

Equipment Digital voltmeter

1. Enter the service mode.
2. Change data values of each test points to adjust the fan min/max output voltage.

Item no.	Fan Location	Test Point	Adjustment value
250 - 1	FN901/902	TPFANA	**13.5** ±0.1Vdc
250 - 3	FN903/904	TPFANB	**13.5** ±0.1Vdc
250 - 5	FN905	TPFANC	**13.5** ±0.1Vdc

GND TE501

3. Auto Calibration adjustment [PC]

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
   Lamp control **Normal** mode.
   G-sync Off
   Image Standard
3. To start the auto-calibration for PC adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "**OK**" will appear on the screen.

4. Auto Calibration adjustment [Video]

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Video [Video]** mode.
   Lamp control **Normal** mode.
   Image Standard
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "**OK**" will appear on the screen.

5. Auto Calibration adjustment [Component]

1. Enter the service mode.
2. Receive the Color Bar 480i-component signal with **Video [Component]** mode.
   Lamp control **Normal** mode.
   Image Standard
3. To start the auto-calibration for Component adjustment, select group no. "**260**", item no. "**0**" and then change data value from "**0**" to "**1**". After the auto-calibration completed, "**OK**" will appear on the screen.

6. Common Center adjustment

1. Enter the service mode.
2. Receive the 50%-Whole Gray computer signal with **Computer1 [RGB]** mode.
   Lamp control **Normal** mode.
   Image Standard
3. Select group no. "**100**", item no. "**1**" and change data value to "**0**" to reduce the panel frequency.
4. Project only **green** light component to the screen.
5. Select group no. "**101**", item no. "**5**" and change data value to obtain the minimum flicker on the screen.
6. Project only **red** light component to the screen.
7. Select item no. "**4**" and change data value to obtain the minimum flicker on the screen.
8. Project only **blue** light component to the screen.
9. Select item no. "**6** and change data value to obtain the minimum flicker on the screen.
10. Select group no. "**100**", item no. "**1**" and change data value to "**2**" to reset the panel frequency.

7. Gamma Correction adjustment

This adjustment must use the service tool.
Adjust the gamma curve correction by using the proper computer and "PROJECTOR SERVICE TOOL CD-ROM" software supplied separately.

8. Read/Write of LCD panel gamma data when Main Board replacing

The gamma adjustment data of each LCD panel has been adjusted preciously to much each LCD panel characteristics at factory.
When you replace the Main Board, you need to read out the gamma data stored in the memory IC on the previous board and write down the gamma data into the memory IC on the new board. By this way, the projector is enabled to reproduce the picture which has the properly adjusted gamma characteristic.

Use "PROJECTOR SERVICE TOOL CD-ROM" for Read / Write of the gamma data as follows;

Note On White Uniformity Adjustment

If the correction of the Color shading adjustment is necessary, please adjust the "Color shading" by using the "PROJECTOR SERVICE TOOL CD-ROM" software supplied separately.
The color shading correction adjustment for this model should be performed with the whole-gray patterns specified as below.

4-input patterns:
12.0% gray, 25.0% gray, 50.0% gray, 75.0% gray

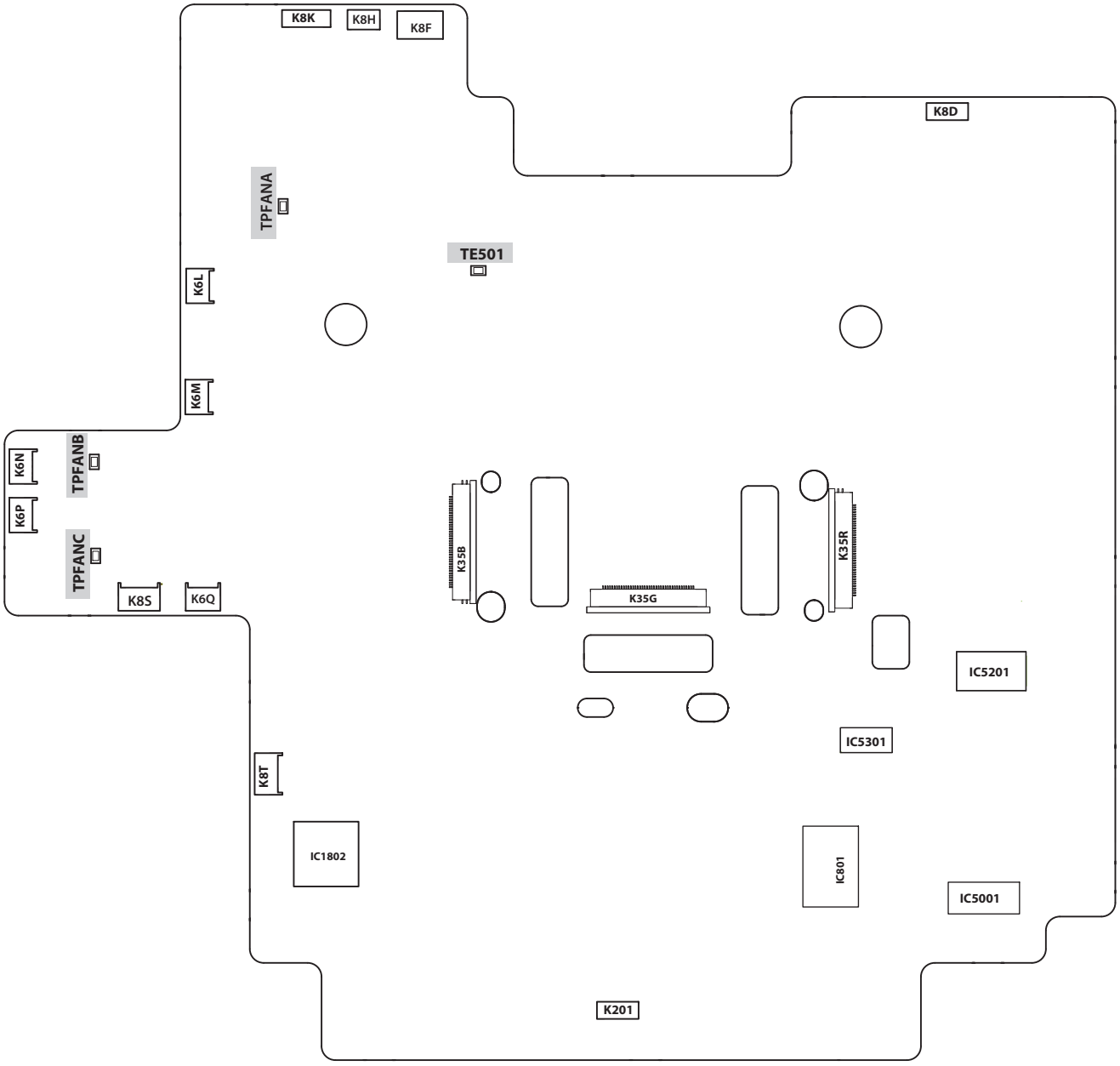
The software can be ordered as follows;

PROJECTOR SERVICE TOOL CD-ROM Ver. 4.20

Service Parts No. 610 343 5596

Test Points and Locations

MAIN BOARD



Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "✻" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

Group/Item	Item Name	Function	Initial	Range	Note
Group 0	**AD Converter (PW190)**				
0	ADC G-OFFSET	PC / Component / SCART	132/127/132	0 - 255	
1	ADC R-OFFSET	PC / Component / SCART	130/139/128	0 - 255	
2	ADC B-OFFSET	PC / Component / SCART	148/154/128	0 - 255	
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	Composite & S-Video / Component / PC *R: Read only value
7	GRNAADWNSMPL / RBAADWNSMPL	Green (Red and Blue) Anti-Alias Downsample	0 / R / R	0 - 3	
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	
10	SOGTH	PC / Component / SCART SyncOn Green Threhould	6 / 4 / 4	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysterisis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	0 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
138	PreCoast PC Video 1080p 60Hz		7	0 - 63	
139	PostCoast PC Video 1080p 60Hz		13	0 - 63	
140	PreCoast PC Video 1080p 50Hz		7	0 - 63	
141	PostCoast PC Video 1080p 50Hz		13	0 - 63	
142	PreCoast PC Video 1080p 30Hz		7	0 - 63	
143	PostCoast PC Video 1080p 30Hz		13	0 - 63	
144	PreCoast PC Video 1080p 25Hz		7	0 - 63	
145	PostCoast PC Video 1080p 25Hz		13	0 - 63	
146	PreCoast PC Video 1080p 24Hz		7	0 - 63	
147	PostCoast PC Video 1080p 24Hz		13	0 - 63	
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	

Group/Item	Item Name	Function	Initial	Range	Note
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	
183	PostCoast SCART 575i		13	0 - 63	
Group 10	**Sync Processor**				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 tansition	0x700	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 tansition	0x1000	0 - 9999	
Group 20	**Video Decoder** *R : Read Only Value				
0	Y Level	Composite / S-Video - Y Level (ADC RGB Gain)	10/10	0 - 255	Composite / S-Video
1	C Level	Composite / S-Video - C Level (ADC Saturation)	115/115	0 - 255	Composite / S-Video
2					
3	XCXL Level	Cross-Chroma, Cross-Luma Level	3	0 - 5	
4	C2DNBANDWIDTH	Comb 2D Narrow Bandwidth	3 / 3	0 - 3	NTSC/PAL
5	C2DWBANDWIDTH	Comb 2D Wide Bandwidth	4 / 4	0 - 7	NTSC/PAL
6	C2DCNMINLEAK	Comb 2D Chroma Narrow Band Minimum Leakage	0 / 3	0 - 3	Left Values are adjustable if CXCL Level = 5.
7	C2DCNSLOPELEAK	Comb 2D Narrow Band Slope Leakage	7 / 7	0 - 7	NTSC/PAL
8	C2DCWMINLEAK	Comb 2D Wide Band Minimum Leakage	1 / 3	0 - 3	NTSC/PAL
9	C2DCWSLOPELEAK	Comb 2D CW Slope Leakage	6 / 6	0 - 7	NTSC/PAL
10	COMBLEAK2BPGAIN	Comb Leak To Ban Pass Gain	1 / 0	0 - 3	NTSC/PAL
11	C2DBDIAGONALGAIN	Comb 2D Band Pass Diagonal Gain	1 / 3	0 - 3	NTSC/PAL
12	C2DNBCWBCLGAIN	Comb 2D Narrow Band Comb Wide Band Comb	1 / 1	0 - 3	NTSC/PAL
13	RLUMASETUP-Enable	7.5IRE Setup Enable	0	0 - 1	Effective only NTSC Signal
Group 40	**General**				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	**Deinterlacer setting**	Effective only for Progressive ON-L1 mode.			
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42	**Deinterlacer setting**	Effective only for Progressive ON-L2 mode.			
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	**Deinterlacer setting**	Effective only for Progressive ON/Film mode.			
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <====> 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	**Noise Reduction (Time)**	ffective only for N.R - Off			
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	

Group/Item	Item Name	Function	Initial	Range	Note
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	
Group 47	**Noise Reduction (Time)** Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	**Noise Reduction (Time)** Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	**2:2pull down setting**				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT22>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	**2:3pull down setting**				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT23>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1023	Read only
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 55	**LTI / CTI**				
0	DC TIEN		0	0 - 1	
1	DC TILBB		0	0 - 1	
2	DC TISELBAND		0	0 - 1	
3	DC TILBGAIN		3	0 - 63	
4	DC TIBGAIN		63	0 - 63	
5	DC TICOR		8	0 - 31	
6	PEAKOVER1		255	0 - 255	
7	PEAKOVER2		255	0 - 255	
8	PEAKEN		0	0 - 1	
9	PEAKBKGAIN		0	0 - 1	
10	PEAKREFSEL		0	0 - 1	
11	PEAKB		0	0 - 3	
12	PEAKH		3	0 - 3	
13	PEAKLPGAIN		2	0 - 63	
14	PEAKLHGAIN		1	0 - 63	
15	PEAKCOR		0	0 - 31	
16	PEAKREFGAIN		16	0 - 63	

Group/Item	Item Name	Function	Initial	Range	Note
Group 60	**Image**				
0	Center Contrast		534/578/534/534/492/492	0 - 1023	Video(S-Video) / Component / SCART /ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
1	Center Brightness		512/496/512/500/512/512	0 - 1023	
2	Center Color		512/512/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	16	
5	Center WB-Red		512/512/512/512/512/512	0 - 1023	
6	Center WB-Green		512/512/512/512/512/512	0 - 1023	
7	Center WB-Blue		512/512/512/512/512/512	0 - 1023	
8	Alpha Contrast		40/40/40/40/40/40	0-1000	
9	Alpha Brightness		140/140/140/140/140/140	0-1000	
10	Alpha Color		70/70/70/70/70/70	0-1000	
11	Alpha Tint		10/10/10/10/10/10	0-1000	
12	Alpha Sharpness		10/10/10/10/10/10	0-1000	
13	Alpha WB-Red		40/40/40/40/40/40	0-1000	
14	Alpha WB-Green		40/40/40/40/40/40	0-1000	
15	Alpha WB-Blue		40/40/40/40/40/40	0-1000	
Group 100	**Panel Service (CXD3540)**				
0	TG SCANM		2	0-3	
1	TG FRPM	Flicker Adjutment	2	0-3	2 : Normal 0 : Adjustment Mode
2	TG RGT		1	0-1	
3	TG DWN		1	0-1	
4	TG HP		13	0-2047	
5	TG HP-R		35	0-127	
6	TG HP-G		35	0-127	
7	TG HP-B		35	0-127	
8	TG VP-R		0	0-15	
9	TG VP-G		3	0-255	
10	TG VP-B		0	0-15	
11	TG SHP_R		35	0-127	
12	TG SHP_G		35	0-127	
13	TG SHP_B		35	0-127	
14	TG FRP_G		91	0-2047	
15	TG PRG_U		64	0-1023	
16	TG PRG_D		103	0-1023	
17	TG HST_R_PF		12	0-127	
18	TG HST_R_PC		9	0-127	
19	TG DCK1_R_WA		5	0-127	
20	TG DCK1_R_F		25	0-127	
21	TG DCK2_R_WA		6	0-127	
22	TG DCK2_R_F		24	0-127	
23	TG DCK3_R_WA		5	0-127	
24	TG DCK3_R_F		1	0-127	
25	TG DCK4_R_WA		6	0-127	
26	TG DCK4_R_F		0	0-127	
27	TG HST_G_PF		12	0-127	
28	TG HST_G_PC		9	0-127	
29	TG DCK1_G_WA		5	0-127	
30	TG DCK1_G_F		1	0-127	
31	TG DCK2_G_WA		6	0-127	
32	TG DCK2_G_E		24	0-127	
33	TG DCK3_G_WA		5	0-127	
34	TG DCK3_G_F		25	0-127	
35	TG DCK4_G_WA		6	0-127	
36	TG DCK4_G_F		0	0-127	
37	TG HST_B_PF		12	0-127	
38	TG HST_B_PC		9	0-127	
39	TG DCK1_B_WA		5	0-127	
40	TG DCK1_B_F		25	0-127	
41	TG DCK2_B_WA		6	0-127	
42	TG DCK2_B_F		24	0-127	
43	TG DCK3_B_WA		5	0-127	
44	TG DCK3_B_F		1	0-127	
45	TG DCK4_B_WA		6	0-127	
46	TG DCK4_B_F		0	0-127	
47	TG PCG_U		64	0-1023	
48	TG PCG_D		144	0-1023	
49	TG ENB_U		107	0-1023	
50	TG ENB_D		51	0-1023	

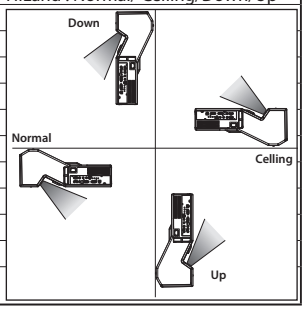
Group/Item	Item Name	Function	Initial	Range	Note
51	TG CLR_U		90	0-1023	
52	TG CLR_D		38	0-1023	
53	TG VCKP		64	0-2047	
54	TG VCKPD		1344	0-2047	
55	TG VVSTP		78	0-255	
56	TG DFT_ON		0	0-1	
57	TG HPC_R_DAT00		0	0-8191	
58	TG HPC_R_DAT01		0	0-8191	
59	TG HPC_G_DAT00		0	0-8191	
60	TG HPC_G_DAT01		0	0-8191	
61	TG HPC_B_DAT00		0	0-8191	
62	TG HPC_B_DAT01		0	0-8191	
63	TG SCAN_HP		92	0-2047	
64	DSC USR_R_GAIN		512	0-1023	
65	DSC USR_G_GAIN		512	0-1023	
66	DSC USR_B_GAIN		512	0-1023	
67	DSC USR_R_BRIGHT		0	0-8191	
68	DSC USR_G_BRIGHT		0	0-8191	
69	DSC USR_B_BRIGHT		0	0-8191	
70	DSC FRM_DAT		0	0-255	
71	DSC SEL_MODE1		0	0-7	
72	DSC RLRDUM_PIX		8	0-127	
73	GAM_ON		1	0-1	
74	GAM_R_GAIN		512	0-1023	
75	GAM_G_GAIN		512	0-1023	
76	GAM_B_GAIN		512	0-1023	
77	GAM_R_BRIGHT		0	0-8191	
78	GAM_G_BRIGHT		0	0-8191	
79	GAM_B_BRIGHT		0	0-8191	
80	VXT_DETECT_ON		1	0-1	
81	VXT_GSEL		2	0-3	
82	VXT_RCALC		0	0-1	
83	VXT_GCALC		0	0-1	
84	VXT_BCALC		0	0-1	
85	VXT_ON		1	0-1	
86	VXT_RDATU1		9	0-255	
87	VXT_RDATU2		11	0-255	
88	VXT_RDATU3		16	0-255	
89	VXT_GDATU1		9	0-255	
90	VXT_GDATU2		11	0-255	
91	VXT_GDATU3		16	0-255	
92	VXT_BDATU1		9	0-255	
93	VXT_BDATU2		11	0-255	
94	VXT_BDATU3		16	0-255	
95	VXT_RDATL1		4	0-255	
96	VXT_RDATL2		5	0-255	
97	VXT_RDATL3		8	0-255	
98	VXT_GDATL1		4	0-255	
99	VXT_GDATL2		5	0-255	
100	VXT_GDATL3		8	0-255	
101	VXT_BDATL1		4	0-255	
102	VXT_BDATL2		5	0-255	
103	VXT_BDATL3		8	0-255	
104	VXT_TH_ON		15	0-15	
105	VXT_TH1		30	0-255	
106	VXT_TH2		40	0-255	
107	VXT_TH3		204	0-255	
108	VXT_TH4		216	0-255	
109	CSC_XH		0	0-1	
110	CSC_ON		1	0-1	
111	CSC_R_GP1		317	0-511	
112	CSC_R_GP2		281	0-511	
113	CSC_R_GP3		232	0-511	
114	CSC_R_GP4		179	0-511	
115	CSC_R_GP5		0	0-511	
116	CSC_R_GP6		0	0-511	
117	CSC_R_GP7		0	0-511	
118	CSC_R_GP8		0	0-511	
119	CSC_G_GP1		322	0-511	
120	CSC_G_GP2		285	0-511	

Group/Item	Item Name	Function	Initial	Range	Note
121	CSC_G_GP3		241	0-511	
122	CSC_G_GP4		196	0-511	
123	CSC_G_GP5		0	0-511	
124	CSC_G_GP6		0	0-511	
125	CSC_G_GP7		0	0-511	
126	CSC_G_GP8		0	0-511	
127	CSC_B_GP1		319	0-511	
128	CSC_B_GP2		285	0-511	
129	CSC_B_GP3		235	0-511	
130	CSC_B_GP4		179	0-511	
131	CSC_B_GP5		0	0-511	
132	CSC_B_GP6		0	0-511	
133	CSC_B_GP7		0	0-511	
134	CSC_B_GP8		0	0-511	
135	SHAD_GSEL		1	0-3	
136	SHAD_R_CALC		1	0-1	
137	SHAD_G_CALC		1	0-1	
138	SHAD_B_CALC		1	0-1	
139	SHAD_ON		1	0-1	
140	SHAD_R_DAT1		37	0-255	
141	SHAD_R_DAT2		18	0-255	
142	SHAD_R_DAT3		12	0-255	
143	SHAD_G_DAT1		37	0-255	
144	SHAD_G_DAT2		18	0-255	
145	SHAD_G_DAT3		12	0-255	
146	SHAD_B_DAT1		37	0-255	
147	SHAD_B_DAT2		18	0-255	
148	SHAD_B_DAT3		12	0-255	
149	SHAD_COEF		1351	0-4095	
150	VS_GSEL		0	0-3	
151	VS_R_RGT		0	0-1	
152	VS_G_RGT		0	0-1	
153	VS_B_RGT		0	0-1	
154	VS_CYCLE		0	0-1	
155	VS_ON		0	0-1	
156	VS_GDAT1		0	0-255	
157	VS_DAT		0	0-255	
158	VS_GDAT3		0	0-255	
159	VS_GDAT2		0	0-255	
160	HXT_TH4_ON		0	0-1	
161	HXT_TH3_ON		0	0-1	
162	HXT_TH2_ON		0	0-1	
163	HXT_TH1_ON		0	0-1	
164	HXT_ON		0	0-1	
165	HXT_R_CALC		0	0-1	
166	HXT_G_CALC		0	0-1	
167	HXT_B_CALC		0	0-1	
168	HXT_GSEL		0	0-3	
169	HXT_RDAT1		0	0-255	
170	HXT_RDAT2		0	0-255	
171	HXT_RDAT3		0	0-255	
172	HXT_GDAT1		0	0-255	
173	HXT_GDAT2		0	0-255	
174	HXT_GDAT3		0	0-255	
175	HXT_BDAT1		0	0-255	
176	HXT_BDAT2		0	0-255	
177	HXT_BDAT3		0	0-255	
178	HXT_TH1		0	0-255	
179	HXT_TH2		0	0-255	
180	HXT_TH3		0	0-255	
181	HXT_TH4		0	0-255	
182	SEL_MODE2		0	0-7	
200	IRE_L1		12	0-100	
201	IRE_L2		25	0-100	
202	IRE_L3		50	0-100	
203	IRE_L4		75	0-100	
204	C0lshd Level R min		199	0-511	
205	C0lshd Level R		232	0-511	
206	C0lshd Level R		281	0-511	

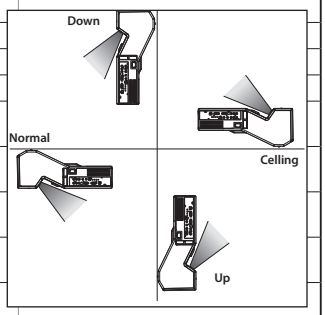
Group/Item	Item Name	Function	Initial	Range	Note
207	C0lshd Level R max		341	0-511	
208	C0lshd Level G min		200	0-511	
209	C0lshd Level G		232	0-511	
210	C0lshd Level G		280	0-511	
211	C0lshd Level G max		334	0-511	
212	C0lshd Level B min		201	0-511	
213	C0lshd Level B		232	0-511	
214	C0lshd Level B		290	0-511	
215	C0lshd Level B max		350	0-511	
250	ODS Test Pattern		0	0-6	
Group 101 : Panel Service (CXA7009)					
0	FRINV		0	0-1	
1	SIG Center		32	0-63	
2	Gain Control		194	0-255	
3	Bright Control		0	0-255	
4	VCOM Control R		93	0-127	
5	VCOM Control G		90	0-127	
6	VCOM Control B		90	0-127	
7	SID Control A		18	0-255	
8	SID Control B		154	0-255	
Group 200	**Option**				
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 3-9: not used)	0	0 - 1	Effective after AC On
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
2	PJLink Enable	PJLink			
3	Shipping Setting		0	0 - 20	Default set when the value is set to 10
4	CABLE SW	Long Cable	0	0 - 1	0: Disable, 1: Enable
5	PW Debug Command Enable		0	0 - 1	0:Disable (Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
50	Lamp Replacement Display	Lamp Warning Display On / Off	1	0 - 1	1: On, 0: Off
51	Filter Warning Display	Filter Warning Display On / Off	1	0 - 1	1: On, 0: Off
52	Lamp Counter reset Times	Reset Times of Lamp Counter	0	0 - 255	Read only
53	Filter Counter Reset Time	Reset Times of Filter Counter	0	0 - 255	Read only
54	Factory Default Execute Times	Reset times of Fanctory Default	0	0 - 255	Read only
56	Menu Position	Move menu (X asis)	0	0 - 1024	
57	Menu Position	Move menu (Y asis)	0	0 - 1024	
59	Source Search Enable	Source Search	0	0 - 1	0:Disable 1: Enable
70	RC Mode	Setting RC Mode	0	0 - 1	0: Normal RC Mode 1: Promethean RC Mpde
71	Force Model Option	Model Option Force Setting	0	0 - 2	0: Normal 1: Force for XE50 2: Force for XL50,51
80	Panel life test mode	Setting panel life test mode	1	0 - 1	0: Life test mode 1: Normal
Group 201	**Option (signal)**				
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
1	AV TRUE	Change AV Signal True	0	0 - 1	0: Disable 1: Enable
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINVSetting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value

Group/Item	Item Name	Function	Initial	Range	Note
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 32757	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter Center Value	Reference Value	16	0 - 30	
Group 203	**Option (Uniformity Adjust FPGA)**				
0	FPGA Version	FPGA Version Display			Read only
1	ON / OFF	Yniformity Adjustment Setting ON/OFF	1	0 - 1	0 : OFF 1: ON
2	MODE	Table No. of FPGA	0	0 - 3	0 : TBL0, 1: TBL1 2: TBL2
3	SEL	Uniformity adjustment Method Setting	1	0 - 1	0: Output = Input x (kH+kV) /2 1: Output = Input x (kH+kV)
4	HANTEN	Adrres Reverse Setting	0	0 - 3	0 : Normal 1 : R/L reverse 2: U/D reverse 3: R/L/U/D reverse
5	Red Gain	Red Gain Setting	128/77/102/95/111	0 - 255	Normal/Red/Blue/Yellow/Green
6	Green Gain	Green Gain Setting	128/97/96/96/100	0 - 255	Normal/Red/Blue/Yellow/Green
7	Blue Gain	Blue Gain Setting	128/128/107/155/132	0 - 255	Normal/Red/Blue/Yellow/Green
8	Table	Uniformity adjustment table setting	0	0 - 7	
Group 205	**Spread Spectrum**				
0	Enable	Spread ON/OFF	1	0 - 1	0 : ON 1 : OFF
1	Modulation Frequency	Modulation ratio	80	1 - 500	x 100Hz
2	Spread ratio		100	0 -300	(Set value 100 ---> 0.5%)
Group 210	**LampContorl**				
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value	7	0 - 255	
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value	14	0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value	21	0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value	28	0 - 255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value	35	0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value	42	0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value	49	0 - 255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value	56	0 - 255	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value	63	0 - 255	
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value	70	0 - 255	
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value	77	0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value	84	0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value	91	0 - 255	
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value	98	0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value	105	0 - 255	

Group/Item	Item Name	Function	Initial	Range	Note
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4	0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	-	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Leverl	-	-	* Read only
18	DIMMER_LEVEL_NORMAL	High Dimmer Level	15	0 - 15	
19	DIMMER_LEVEL_ECO	Normal Dimmer Level	0	0 - 15	
20	Lamp check enable		1	0 - 1	0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage	-		Unit: 8bit(Raw Data) * Read only
Group 220	**Projector Warning History**				
0	Warning_Log_1	Last error log	0	0 - 32767	
~	:		:	:	
49	Warning_Log_50	50th error log	0	0 - 32767	
50	Warning_Log_Reset	Log is reset when the value is set to 10.	0	0 - 10	
Group 250	**FAN Cntorol**				
0	FAN1 MIN ADJUST (DAC)	DAC Output for Fan Adjust the tolerance of DAC and Fan Volage. * Lamp mode is forced Eco	42	0 - 255	
1	FAN1 MAX ADJUST (DAC)		234	0 - 255	
2	FAN2 MIN ADJUST (DAC)		42	0 - 255	
3	FAN2 MAX ADJUST (DAC)		234	0 - 255	
4	FAN3 MIN ADJUST (DAC)		42	0 - 255	
5	FAN3 MAX ADJUST (DAC)		234	0 - 255	
6	Not used		9999 (Dummy)		
7	Not used		9999 (Dummy)		
Group 252	**Fan Option**				
0	HI-LAND SWITCH	0: Off, 1: Hi-Land 2: Hi-Land max	0	0 - 2	0 (Read Only)
1	SAFETY SWITCH	For test purpose	0	0 - 6	
2	FAN MANUAL SWITCH	0: Auto, 1: Manual	0	0 - 3	
3	FAN1 MANUAL VOLTAGE	Fan Voltage (unit : 0.1V) Effective only when Fan Maual switch is 1	130	0 - 255	
4	FAN2 MANUAL VOLTAGE		130	0 - 255	
5	FAN3 MANUAL VOLTAGE		130	0 - 255	
6	Not used				
7	Stand Mode	Stand mode setting 0: Normal(Free) 1: Normal(Fixed) 2: Celling 3: Down 4: Up	0	0 - 4	
8	Fan Offset Voltage Update Interval	filter clogged Fan Voltage Update interval time (sec.)	60	1 - 600	

Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	Down	Up		
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	45 35	45 35	45 35	45 35	30-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
6	Temp B Warning (Normal)	Temp. B to judge the Temp Error at Normal (Panel)	56 50	56 50	56 50	56 50	30-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
7	Temp C Warning (Normal)	Temp. C to judge the Temp Error at Normal (Lamp)	73 68	73 68	73 68	73 68	30-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100 100	100 100	100 100	100 100	0-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
9	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100 100	100 100	100 100	100 100	0-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	45 35	45 35	45 35	45 35	30-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
11	Temp B Warning (Eco)	Temp. B to judge the Temp Error at Eco (Panel)	56 49	56 49	56 49	56 49	30-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
12	Temp C Warning (Eco)	Temp. C to judge the Temp Error at Eco (Lamp)	74 67	74 67	74 67	74 67	30-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Eco (Clogging Det.)	100 100	100 100	100 100	100 100	0-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Eco (Clogging Det.)	100 100	100 100	100 100	100 100	0-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.) Error Setting Value is increased X°C at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	5					
16	Temp B Warning Offset (Temp)		5					
17	Temp C Warning Offset (Temp)		5					
18	Temp B-A Warning Offset (Temp)		0					
19	Temp C-A Warning Offset (Temp)		0					
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes) Error Setting Value is increased X minute at the below condition * Standby * Right to turn on the lamp *Right to change the Lamp mode	1					
21	Temp B Warning Offset (Time)		1					
22	Temp C Warning Offset (Time)		1					
23	Temp B-A Warning Offset (Time)		1					
24	Temp C-A Warning Offset (Time)		1					
25	Factory Mode	For factor use	0					

Group/Item	Item Name	Function	Initial				Range	Note
Group 254	**Fan Control Range Setting (Temp./Voltage)**		Normal	Ceiling	Down	Up		
0	Not used							
1	Not used							
2	Not used							
3	Not used							
4	Not used							
5	Not used							
6	Not used							
7	Not used							
8	Not used							
9	Not used							
10	Normal Fan Control Min Temp	Temp Sensor Control Start/End Temp. at Normal	27 20	27 20	27 20	27 20	20-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
11	Normal Fan Control Max Temp		36 30	36 30	36 30	36 30	20-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
12	Normal Fan1 Min	Fan voltage value at Normal (unit: 0.1V)	85 105	85 105	85 105	85 105	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
13	Normal Fan1 Max		135 135	135 135	135 135	135 135	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
14	Normal Fan2 Min		98 110	98 110	98 110	98 110	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
15	Normal Fan2 Max		130 130	130 130	130 130	130 130	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
16	Normal Fan3 Min		85 110	85 110	85 110	85 110	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
17	Normal Fan3 Max		100 130	100 130	100 130	100 130	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
18	Not used		9999	9999	9999	9999	-	
19	Not used		9999	9999	9999	9999	-	
20	Eco Fan Control Min Temp	Temp Sensor Control Start/End Temp. at Eco	27 20	27 20	27 20	27 20	20-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
21	Eco Fan Control Max Temp		36 30	36 30	36 30	36 30	20-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
22	Eco Fan1 Min	Fan voltage value at Eco (unit: 0.1V)	75 75	75 75	75 75	75 75	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
23	Eco Fan1 Max		130 135	130 135	130 135	130 135	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
24	Eco Fan2 Min		82 82	82 82	82 82	82 82	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
25	Eco Fan2 Max		110 110	110 110	110 110	110 110	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
26	Eco Fan3 Min		60 75	60 75	60 75	60 75	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
27	Eco Fan3 Max		68 125	68 125	68 125	68 125	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
28	Not used		9999	9999	9999	9999	-	
29	Not used		9999	9999	9999	9999	-	
30	Filter Error Detect Temp	Fan Control Start Temp. (Temp B-A) (Clogging Det.)	17 18	17 18	17 18	17 18	0-100	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
31	Filter Error Offset Volt	Fan Control Voltage Up (Cloggiing Det.) (unit : 0.1V)	10 20	10 20	10 20	10 20	0-255	Normal/Celling/Down/Up HiLand : Normal/ Celling/Down/Up
Group 255	**Fan Start/Cooling Setting**							
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	70				0-255	
1	Fan2 Initial Volt		70				0-255	
2	Fan3 Initial Volt		70				0-255	
3	Not used		255				-	
4	Fan1 Cooling Speed	Fan Voltage at Power Off (0.1V)	130				0-255	
5	Fan2 Cooling Speed		130				0-255	
6	Fan3 Cooling Speed		130				0-255	
8	Cooling Time L1	Cooling Time setting at Fan Mode L1 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	2				1-15	
9	Cooling Time L2	Cooling Time setting at Fan Mode L2 (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3				1-15	
10	Temp Error Cooling Time	Cooling Time setting at Temp Erro (x 30 sec) 1: 30, 3: 90, 15: 450 sec.	3				1-15	



Group/Item	Item Name	Function	Initial	Range	Note
11	OnStart Cooling Start Threshold	With Onstart on. At the time of Power on after Cooling imperfect. Cooling The temperature set point for existence judgement	38	0-100	
12	After shutdown cooling	Cooling after shutdown (0: No, 1: Yes)	1	0-1	
Group 256	**Fan Lamp Voltage Down Setting**				
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	-	0-255	
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (V×10)	0	0-0	
2	Fan1 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (unit: 0.1V)	10	0-255	
3	Fan2 Speed Gain		10	0-255	
4	Fan3 Speed Gain		10	0-255	
5	Not used			-	
Group 257	**Fan Dimmer Setting**				
0	Dimmer Average Check Period	Dimmer Avarage measurement Time (0:10sec, 1:30sec, 2:60sec, 3: 90sec ...10:300 sec)	1	0-10	
1	Dimmer Average	Dimmer Avarage Value (Read only)	-		
2	Last Voltage Difference	Read only (Unit : o.1V)	-		
3	Voltate Difference Goal	Read only (Unit : o.1V)	-		
Group 258	**Fan IC Temp for Netowrk model**				
0	Standby Cooling Check Cycle	Temp B Check Cycle (Standby mode) Unit : minute	3	0-100	
1	Standby Cooling Start Threshold	Temp B start threshold (Standby mode) Unit : minute	44	0-100	
2	Standby Cooling Enable	0 : Disable 1 : Enable	1	0-1	
Group 260	**Auto Calibration (Commn)**				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changiing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	10	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting,9: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1	1 - 20	
4	CHECK -Tolelance	Torelance of OFFSET	2	1 - 255	
Group 261	**Auto Calibration (RGB)**				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Torelance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Torelance of White Level Adj.	1	1 - 255	
Group 262	**Auto Calibration (CVBS/SVIDEO)**				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	20	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	8	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	217	0 - 255	
11	Gain Tolerance	Torelance of Level Adj.	1	0 - 255	
12	Delta Gain	Deviation Width of Gain Value	9	0 - 255	
Group 264	**Auto Calibration (YCbCr)**				
0	Y-OFFSET AREA H START	Y - Offset Acquiring Area H-Start Position	925	0 - 1000	
1	Y-OFFSET AREA V START	Y - Offset Acquiring Area V-Start Position	500	0 - 1000	
2	CB - OFFSET AREA H START	CB - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
3	CB - OFFSET AREA V START	CB - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value

Group/Item	Item Name	Function	Initial	Range	Note
4	CR - OFFSET AREA H START	CR - Offset Acquiring Area H-Start Position	925	0 - 1000	If not used: use Y's value
5	CR - OFFSET AREA V START	CR - Offset Acquiring Area V-Start Position	500	0 - 1000	If not used: use Y's value
6	Y - GAIN AREA H START		50	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	
8	CB - GAIN AREA H START		800	0 - 1000	
9	CB - GAIN AREA V START		500	0 - 1000	
10	CR - GAIN AREA H START		700	0 - 1000	
11	CR - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	13	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
14	Y - OFFSET TARTGET		4	0 - 255	
15	CB OFFSET TARGET		128	0 - 255	
16	CR OFFSET TARGET		128	0 - 255	
17	Y - GAIN TARGET		217	0 - 255	
18	CB - GAIN TARGET		237	0 - 255	
19	CR - GAIN TARGET		237	0 - 255	
20	OFFSET torelance	Torelance of OFFSET Adj.	1	1 - 255	
21	GAIN torelance	Torelance of GAIN Adj.	1	1 - 255	
Group 270	**CUSTUM (Aspect)**				
0	Scaler Horizontal	Horizontal Expansion and contraction rate	100	68 - 132	
1	Scaler Vertical	vertical Expansion and contraction rate	100	68 - 132	
2	Connect	Select Individual / synchronizatio	0	0 - 1	0 : Individual 1 : synchronizatio
3	Position Horizontal	Revise Horizontal Position	100	85 - 115	
4	Position Vertical	Revise Vertical Position	100	85 - 115	
Group 280	**AutoPC Adjsut**				
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Freqency Threshold	5	0 - 10	0 [] <--- -----> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0 - 1	0: Executes Fine Phase, 1: Not Execute
4	BLKDET	Black Level Detection Area	1	0 - 7	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 500	**Composite (NTSC) Composite / S-Video**				
0	Total Dots		-	-	Read Only
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		18	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
7	Overscan	Not used	0	0 - 255	
8	VSBEG	Not used	2	0 - 15	
Group 501	**Composite (PAL) Composite / S-Video**				
0	Total Dots		-	-	Read Only
1	Disp Dots		658	0 ~ 4095	
2	H Back Porch		34	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 502	**Composite (SECAM) Composite / S-Video**				
0	Total Dots		-	-	Read Only
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 510	**SCART(480i)**				
0	Total Dots		-	-	Read Only
1	Disp Dots		662	0 ~ 4095	

Group/Item	Item Name	Function	Initial	Range	Note
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		456	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 511	**SCART (575i)**				
0	Total Dots		-	-	Read Only
1	Disp Dots		648	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		63	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 520	**YCbCr (480i)**				
0	Total Dots		858	0 ~ 4095	Read Only
1	Disp Dots		670	0 ~ 4095	
2	H Back Porch		147	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 521	**YCbCr (575i)**				
0	Total Dots		864	0 ~ 4095	Read Only
1	Disp Dots		650	0 ~ 4095	
2	H Back Porch		163	0 ~ 4095	
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 522	**YCbCr (480P)**				
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		136	0 ~ 4095	
3	V Back Porch		47	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 523	**YCbCr (575P)**				
0	Total Dots		864	0 ~ 4095	* Read only
1	Disp Dots		690	0 ~ 4095	
2	H Back Porch		143	0 ~ 4095	
3	V Back Porch		55	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
7	Overscan		-	0 - 255	
8	VSBEG		-	0 - 15	
Group 524	**YCbCr (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		312	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 525	**YCbCr (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		337	0 ~ 4095	
3	V Back Porch		35	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	

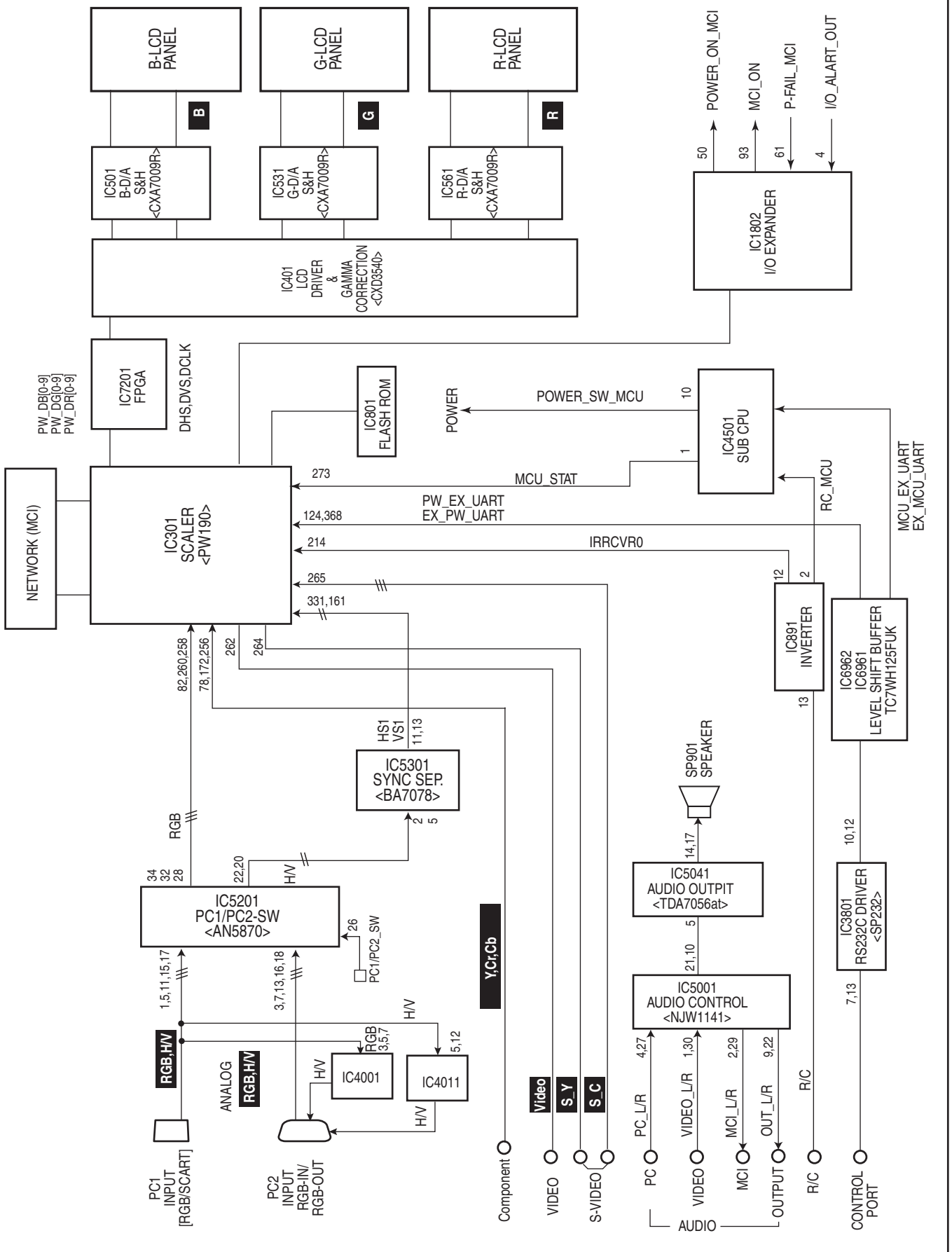
Group/Item	Item Name	Function	Initial	Range	Note
Group 526	**YCbCr (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		255	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 527	**YCbCr (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		255	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 528	**YCbCr (1035i)**				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		257	0 ~ 4095	
3	V Back Porch		90	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 540	**RGB Video (480i)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		45	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 541	**RGB Video (575i)**				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 542	**RGB Video (480P)**				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 543	**RGB Video (575P)**				
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	
3	V Back Porch		61	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 544	**RGB Video (720P - 60)**				
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		316	0 ~ 4095	
3	V Back Porch		33	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	

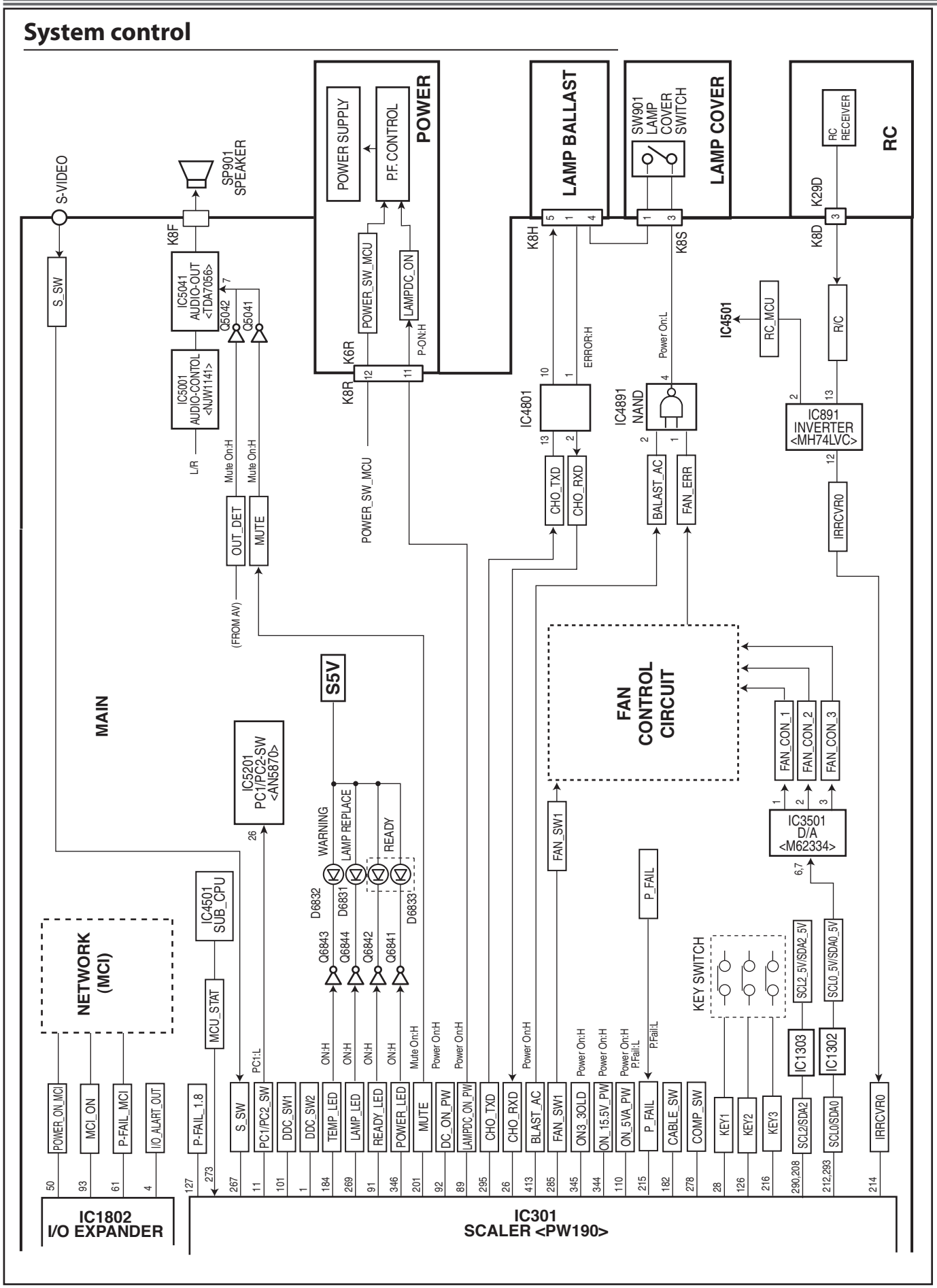
Group/Item	Item Name	Function	Initial	Range	Note
8	VSBEG	Not used	-	0 - 15	
Group 545	**RGB Video (720P - 50)**				
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		318	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		702	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 546	**RGB Video (1080i - 60)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		259	0 ~ 4095	
3	V Back Porch		52	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 547	**RGB Video (1080i - 50)**				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		261	0 ~ 4095	
3	V Back Porch		52	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 548	**RGB Video (1035i)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		262	0 ~ 4095	
3	V Back Porch		88	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 549	**RGB Video (1080P - 60)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		143	0 ~ 4095	
3	V Back Porch		55	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 550	**RGB Video (1080P - 50)**				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		147	0 ~ 4095	
3	V Back Porch		53	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 551	**RGB Video (1080P - 30)**				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		260	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		1066	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 552	**RGB Video (1080P - 25)**				
0	Total Dots		2640	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	

Group/Item	Item Name	Function	Initial	Range	Note
4	Disp Line		1064	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 553	**RGB Video (1080P - 24)**				
0	Total Dots		2750	0 ~ 4095	
1	Disp Dots		1878	0 ~ 4095	
2	H Back Porch		214	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		1070	0 ~ 4095	
7	Overscan	Not used	-	0 - 255	
8	VSBEG	Not used	-	0 - 15	
Group 560	**HDCP (480P)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	-	0 - 255	
8	VSBEG		-	0 - 15	
Group 561	**HDCP (575P)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	-	0 - 255	
8	VSBEG		-	0 - 15	
Group 562	**HDCP (720P-60)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	-	-	
8	VSBEG		-	0 - 15	
Group 563	**HDCP (720P-50)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	-	0 - 255	
8	VSBEG		-	0 - 15	
Group 564	**HDCP (1080i-60)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	-	0 - 255	
8	VSBEG		-	0 - 15	
Group 565	**HDCP (1080i-50)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	-	0 - 255	
8	VSBEG		-	0 - 15	
Group 566	**HDCP (1035i)**				
7	Over Scan	Over Scan Rate (0 ~ 25.5% at 0.1% steps)	-	0 - 255	
8	VSBEG		-	0 - 15	

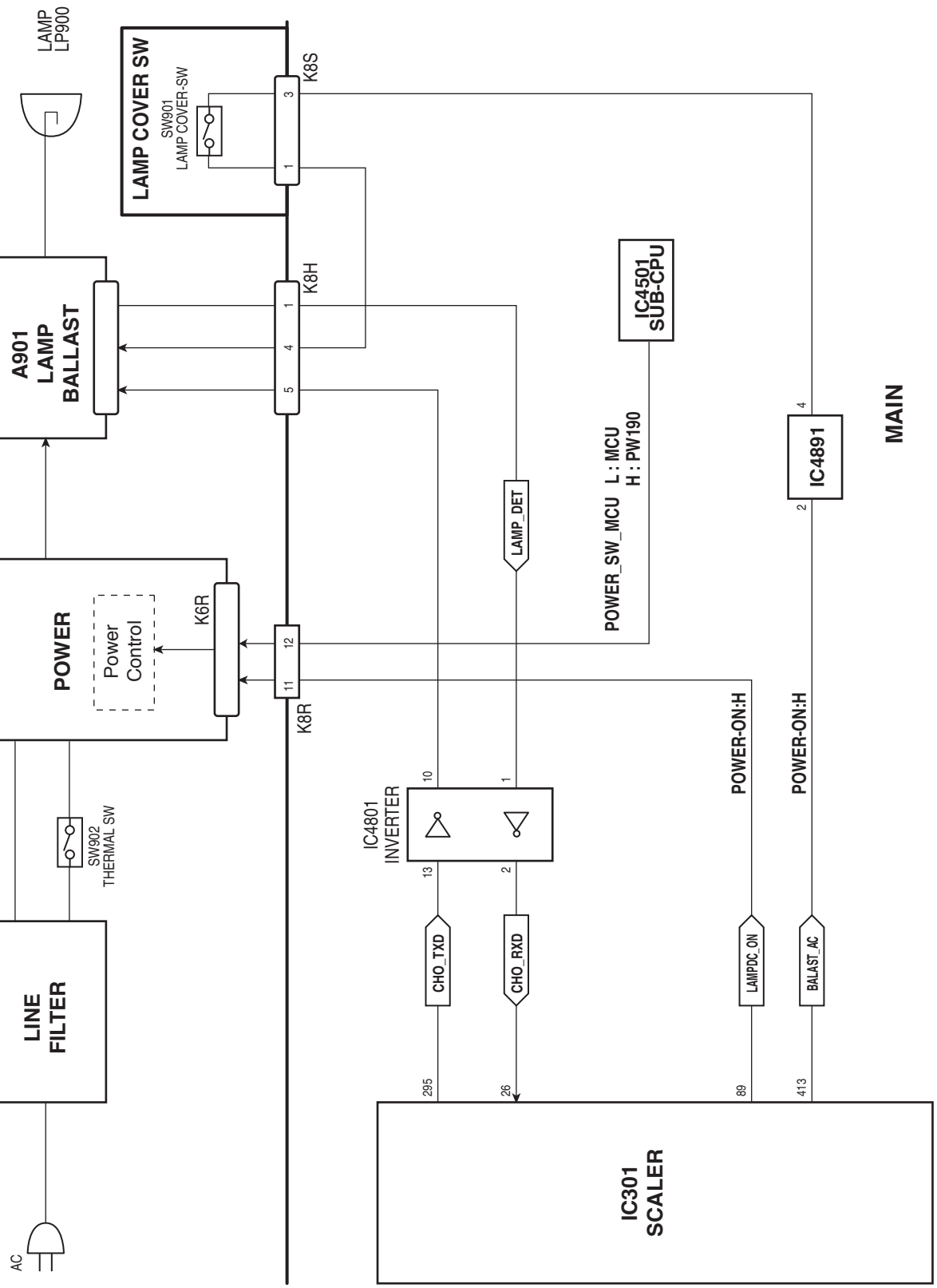
Chassis Block Diagrams

Chassis over view

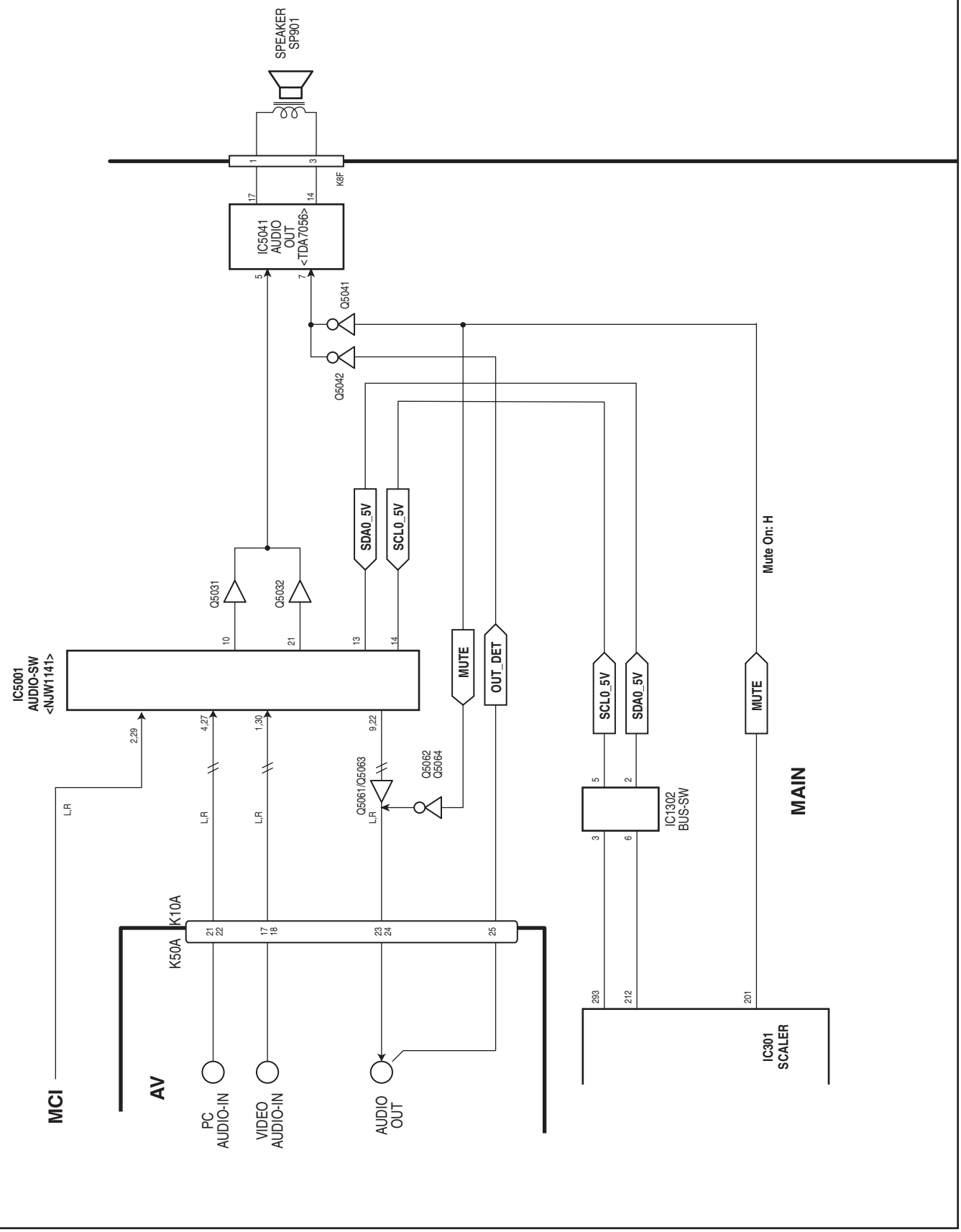



System control
MAIN
POWER
POWER SUPPLY
P.F. CONTROL
LAMP BALLAST
LAMP COVER
SW901 LAMP COVER SWITCH
RC
RC RECEIVER
SP901 SPEAKER
S-VIDEO
S_SW
K8F
IC5041 AUDIO-OUT <TDA7056>
IC5001 AUDIO-CONTOL <NJW1141>
Q5042
Q5041
L/R
Mute On:H
OUT_DET
MUTE
(FROM AV)
POWER_SW_MCU
LAMPDC_ON
P-ON:H
K6R
K8H
K8S
K8D
K29D
IC4801
IC4891 NAND
ERROR:H
Power On:L
IC4501
RC_MCU
R/C
IC891 INVERTER <MH74LVC>
IRRCVR0
CHO_TXD
CHO_RXD
BALAST_AC
FAN_ERR
FAN CONTROL CIRCUIT
FAN_CON_1
FAN_CON_2
FAN_CON_3
IC3501 D/A <M62334>
FAN_SW1
S5V
IC5201 PC1/PC2-SW <AN5870>
WARNING
LAMP REPLACE
READY
D6832
D6831
D6833
Q6843
Q6844
Q6842
Q6841
IC4501 SUB_CPU
MCU_STAT
PC1:L
P_FAIL
P.Fail:L
KEY SWITCH
SCL2_5V/SDA2_5V
SCL0_5V/SDA0_5V
IC1303
IC1302
NETWORK (MCI)
POWER_ON_MCI
MCI_ON
P-FAIL_MCI
I/O_ALART_OUT
P-FAIL_1.8
S_SW
PC1/PC2_SW
DDC_SW1
DDC_SW2
TEMP_LED
LAMP_LED
READY_LED
POWER_LED
MUTE
DC_ON_PW
LAMPDC_ON_PW
CHO_TXD
CHO_RXD
BLAST_AC
FAN_SW1
ON3_3OLD
ON_15.5V_PW
ON_5VA_PW
P_FAIL
CABLE_SW
COMP_SW
KEY1
KEY2
KEY3
SCL2/SDA2
SCL0/SDA0
IRRCVR0
IC1802 I/O EXPANDER
IC301 SCALER <PW190>

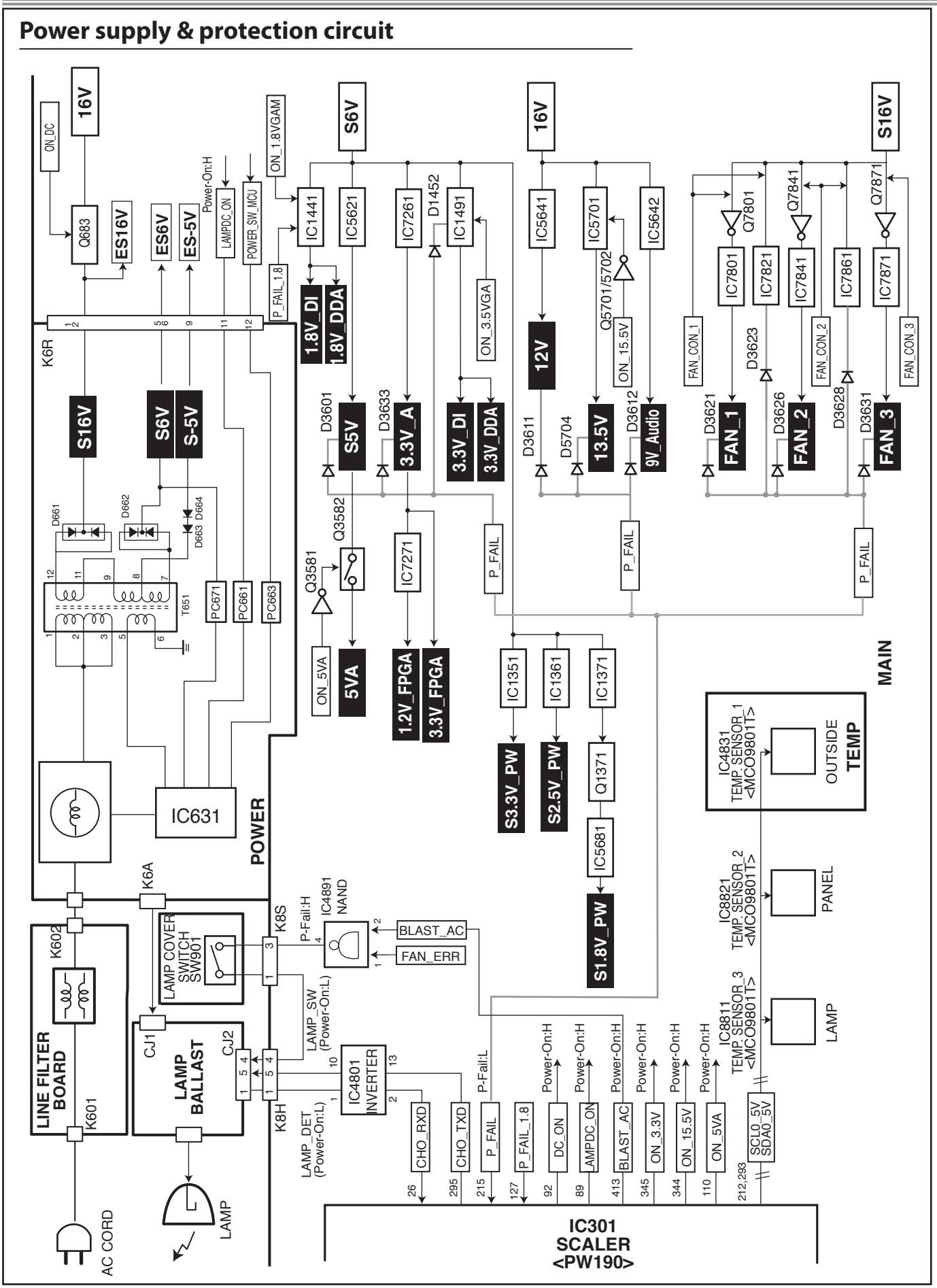
Lamp control



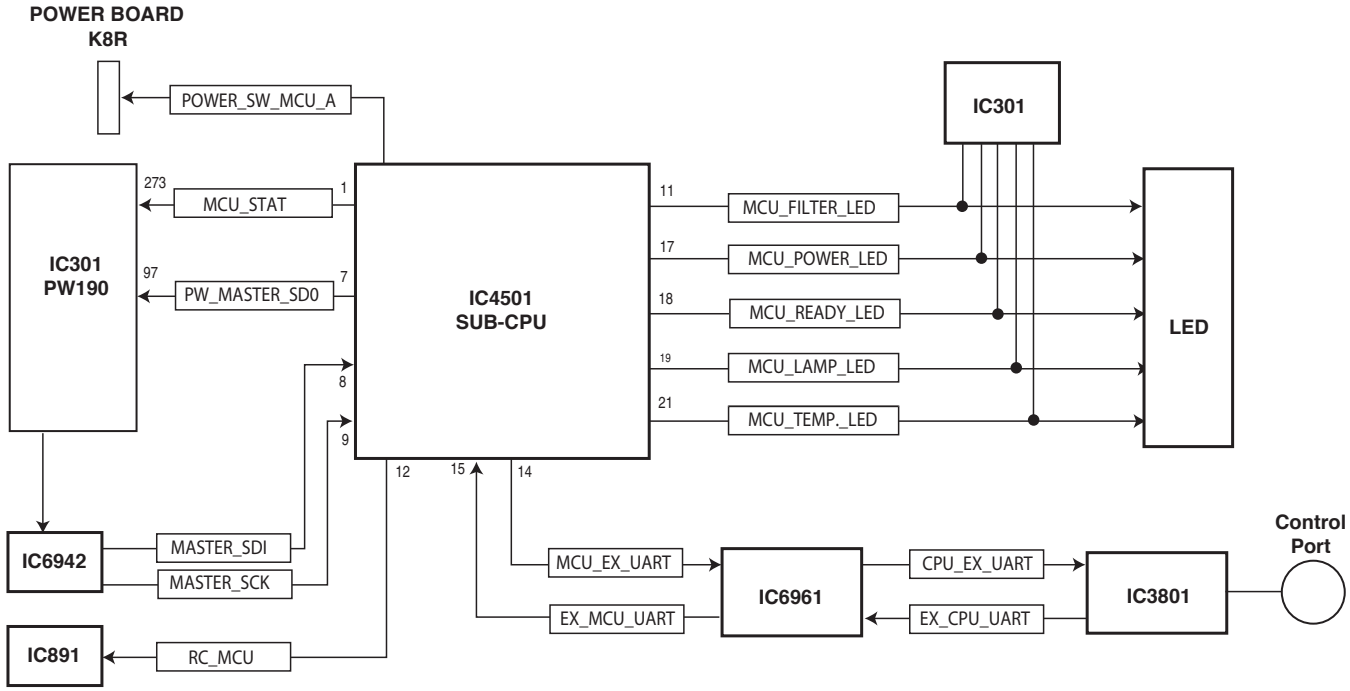
Audio circuit



Power supply & protection circuit



Eco-Standby (Sub -CPU)



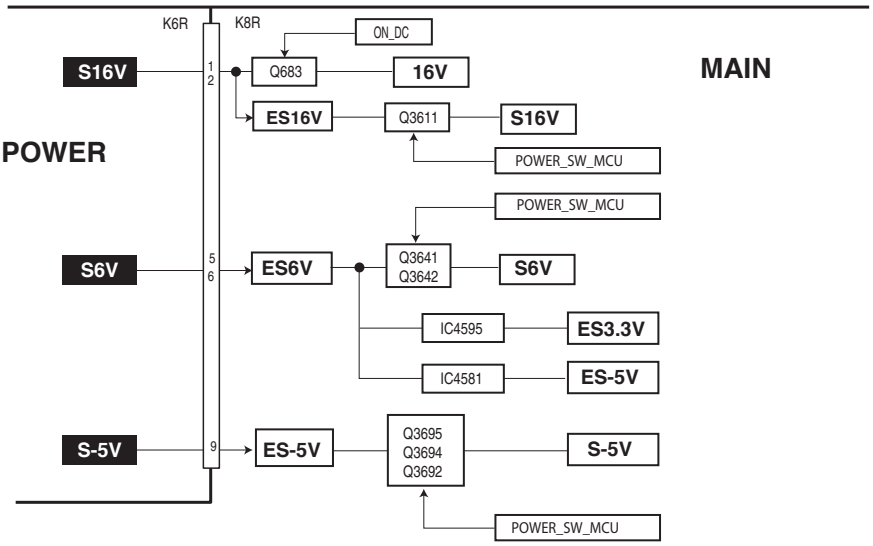
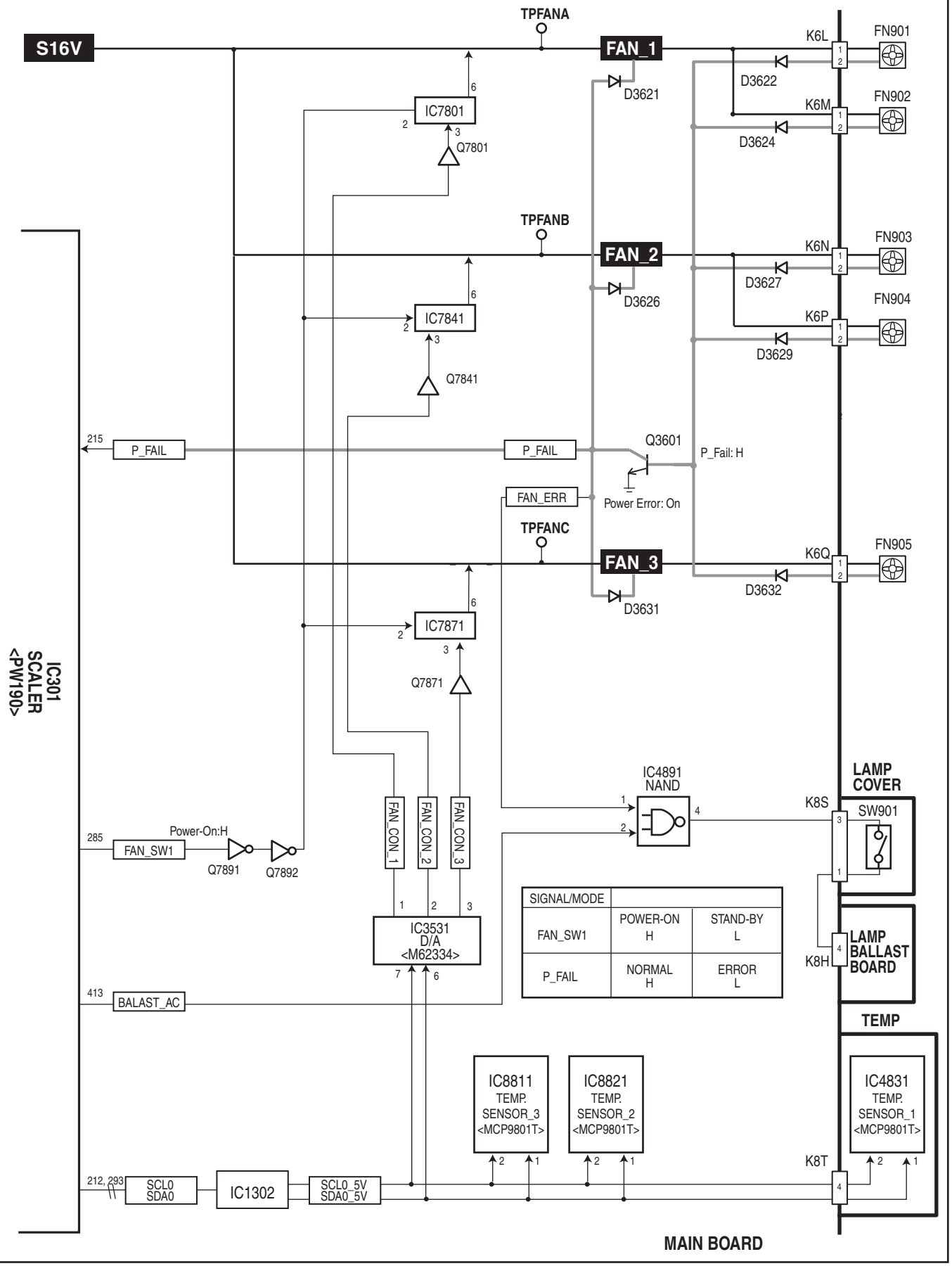
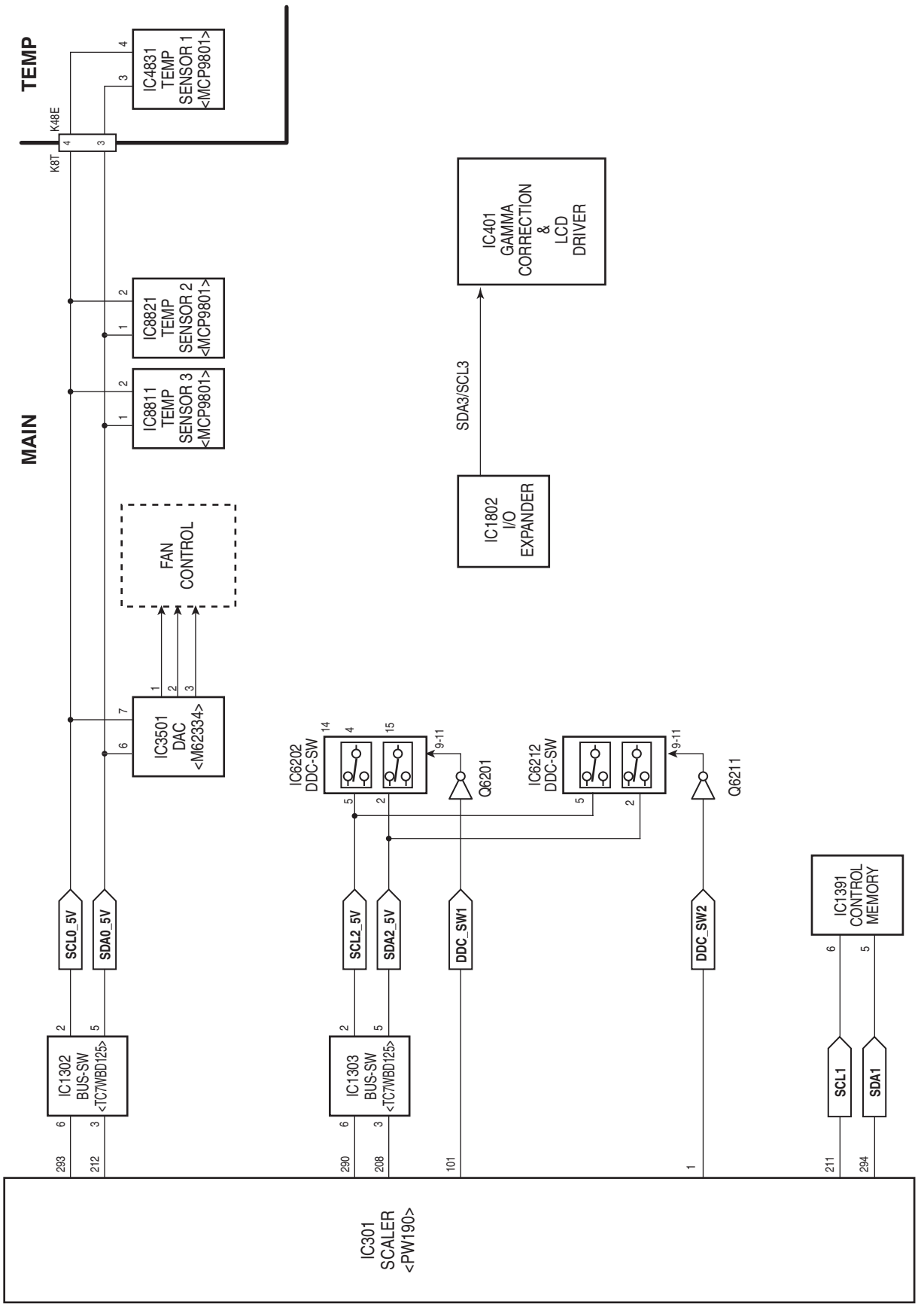


TABLE FOR PROJECTOR STATE AND CONTROLSIGNAL						
	CONTROL SIGNAL		STANDBY-POWER			
	POWER_SW_MCU	LAMP_DC_ON	ES6V	S16V	S6V	S-5V
ECO-STANDBY STATE	L	L	ON	OFF	OFF	OFF
SERIAL-STANDBY STATE	H	H	ON	ON(OFF)	ON	ON
OPERATING STATE	H	H	ON	ON	ON	ON

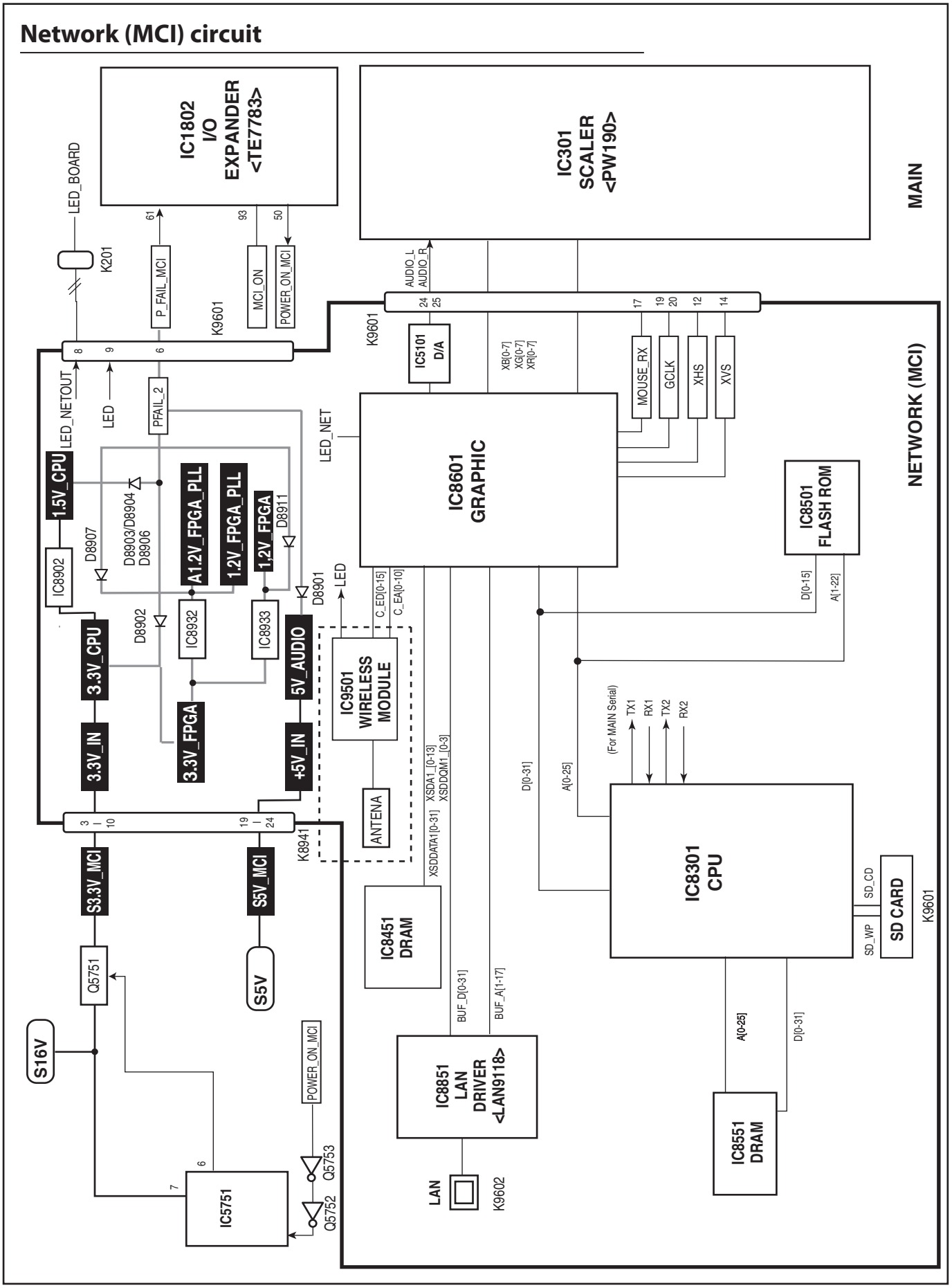
Fan control circuit



IIC bus control circuit



Network (MCI) circuit



■ Troubleshooting

Indicators and Projector Condition

Check the indicators for projector condition.

Indicators				Projector Condition
POWER red/green	WARNING TEMP. red	WARNING FILTER orange	LAMP REPLACE yellow	
●	●	●	●	The projector is off. (The AC power cord is unplugged.)
◍	●	✱	✱	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
◍	●	✱	✱	The projector is ready to be turned on with the ON/STANDBY button.
○	●	✱	✱	The projector is operating normally.
○	●	✱	✱	The projector is in the Power management mode.
◍	◍	✱	✱	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator emits a red light and the projector can be turned on. (The WARNING TEMP. indicator keeps blinking.) Check and clean the air filter.
◍	◍	✱	✱	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING TEMP. indicator stops blinking. Check and clean the air filter.
●	◍	✱	✱	The projector detects an abnormal condition and cannot be turned on. Check power supply circuit and fans control circuit.
✱	●	◎	✱	The filter counter reached a set time. Clean or replace the filter as soon possible.

○ • • • green. ◍ • • • red ◎ • • • orange

○ • • • blinks green. ◍ • • • blinks red. ● • • • off

✱ When the life of the projection lamp draws to an end, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp replacement counter after replacement of the lamp.

No Power

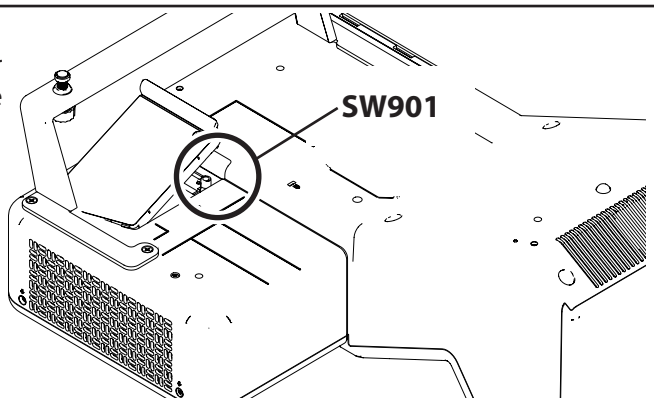
This projector provides a function which can be specified a defective area simply by indicating the LEDs. Connect the AC cord and press the Power button once and then check the LED indication.

- **When all of LED indicators are not lighting**, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;
  AC cord, F601 (Fuse), Power board,
  SW902 (Thermal sw.) short in normal
  SW902 opens when the surrounding temperature of the switch exceeds 100°C.

- **When the WARNING TEMP. (red) and POWER(red) indicators are flashing**, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the POWER indicator stops flashing, and then try to turn on the projector.
  The internal temperature is monitored by sensor ICs, IC8811(Lamp), IC8821 (Panel) on the Main board and IC4831 (Room) on the Temp. board

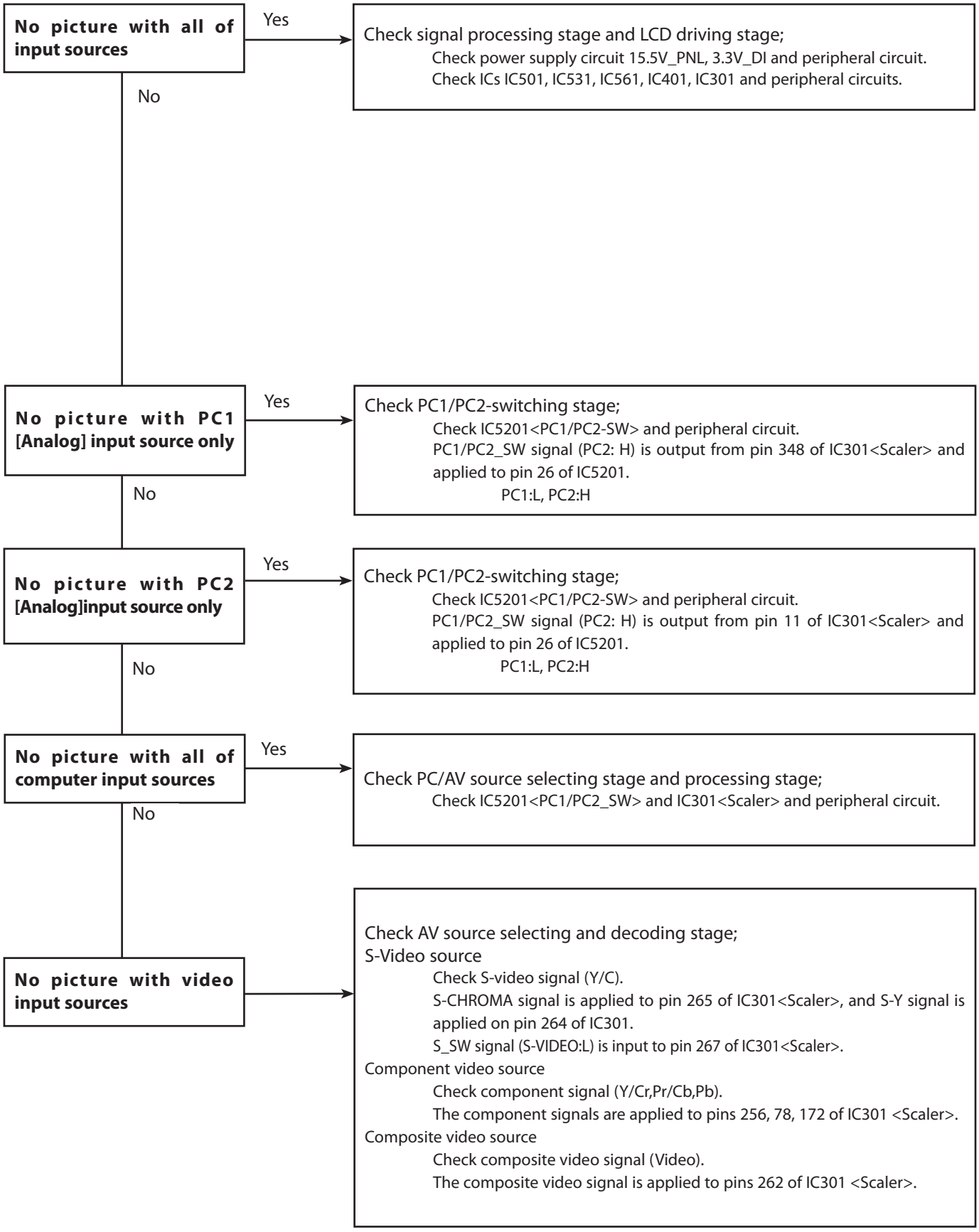
- **When the WARNING TEMP. indicator lights red**, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.
  The P_FAIL signal (Error: L) is sent to pin 215 of IC301<SCALER> when the abnormality occurs inside the projector, and then the IC301 sends the shutdown signal, LAMPDC_ON, to the power supply circuit to stop its operation, and signal BALAST_AC to the lamp ballast board via IC4891 and SW901<lamp cover switch> to stop operation of the lamp circuit.
  An abnormality occurs on the secondary power supply;
  Check power supplies 16V, S6V, S-5V S16V. P_FAIL signal becomes "Low" when the abnormality occurs on any of the power supply lines.
  An abnormality occurs on the fan control circuit;
  Check FN901, FN902, FN903, FN904, FN905, and peripheral circuit.
  If any of the fans has an error, the fan lock signal drives Q3601 becomes on. As the result, signal FAN_ERR becomes Low and is sent to lamp ballast board to stop lamp circuit.
  An abnormality occurs on the drive signals;
  ON_15.5V signal (Power-on: H) is output from pin 344 of IC301 and 16V supply circuit.
  ON_5VA signal (Power-on: H) is output from pin 110 of IC301 and switches Q3582, 5VA supply circuit.
  9V_AUDIO supply circuit.
  ON_3.3V signal (Power-on: H) is output from pin 92 of IC1802 and switches IC1491, 3.3V_DI and 3.3V_DDA supply circuit.
  LAMPDC_ON signal (Power-on: H) is output from pin 89 of IC301 and supplied to the P.F Control IC, IC601, on the power supply board through Q681, and PC602.
  BALAST_AC signal (Power-on: H) is output from pin 413 of IC301 and applied to pin 2 of IC4891 and output pin 4 and then supplied to the lamp ballast board through SW901<Lamp Cover SW>.
  CHO_RXD signal at pin 26 of IC301 is applied from the lamp ballast unit. If the abnormality occurred on the lamp ballast unit, LAMP_DET/CHO_RXD signal becomes "High" and then IC301 shuts down the power supply circuit.

Lamp Cover switch
Make sure that the lamp cover is mounted correctly. If not or the lamp cover removed, the lamp does not light on for the safety. Check the lamp cover and lamp cover switch (SW901).



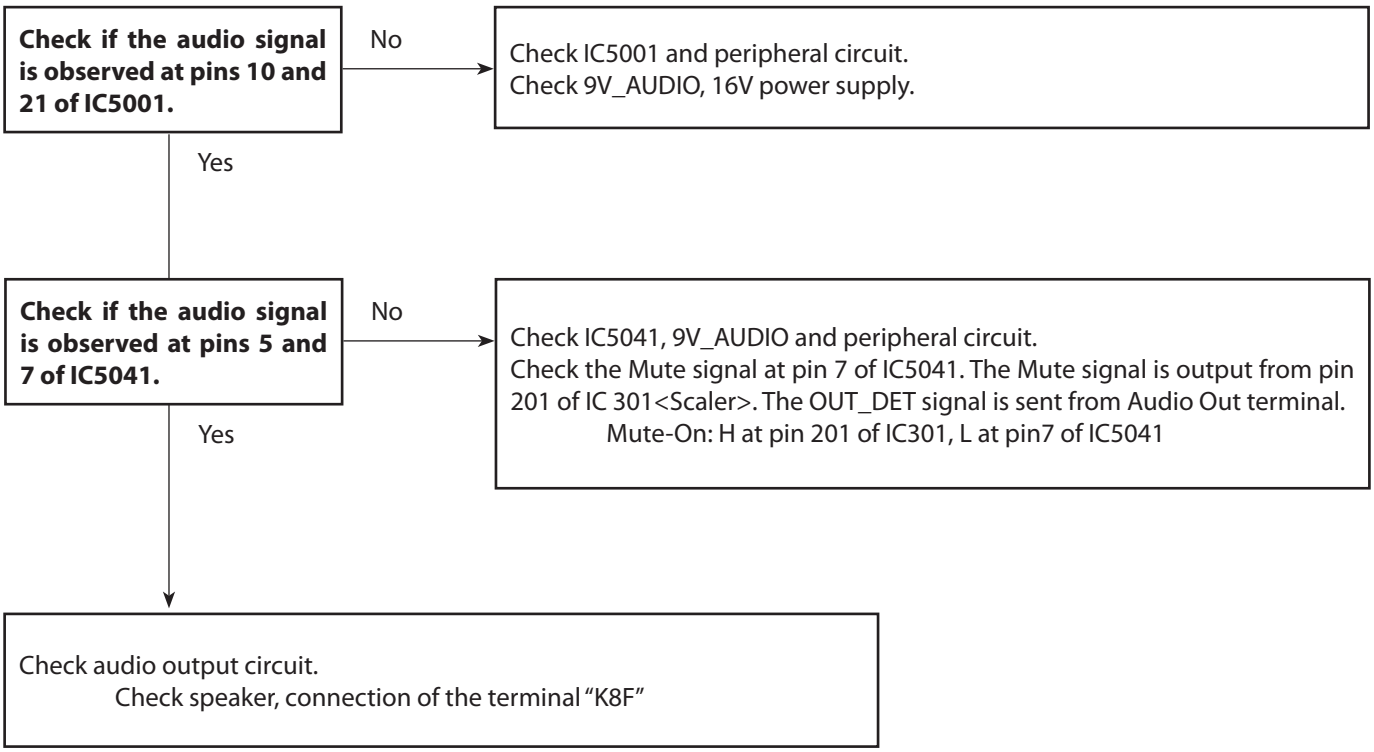
No Picture

Check following steps.


No picture with all of input sources
Yes
Check signal processing stage and LCD driving stage;
Check power supply circuit 15.5V_PNL, 3.3V_DI and peripheral circuit.
Check ICs IC501, IC531, IC561, IC401, IC301 and peripheral circuits.
No
No picture with PC1 [Analog] input source only
Yes
Check PC1/PC2-switching stage;
Check IC5201<PC1/PC2-SW> and peripheral circuit.
PC1/PC2_SW signal (PC2: H) is output from pin 348 of IC301<Scaler> and applied to pin 26 of IC5201.
PC1:L, PC2:H
No
No picture with PC2 [Analog]input source only
Yes
Check PC1/PC2-switching stage;
Check IC5201<PC1/PC2-SW> and peripheral circuit.
PC1/PC2_SW signal (PC2: H) is output from pin 11 of IC301<Scaler> and applied to pin 26 of IC5201.
PC1:L, PC2:H
No
No picture with all of computer input sources
Yes
Check PC/AV source selecting stage and processing stage;
Check IC5201<PC1/PC2_SW> and IC301<Scaler> and peripheral circuit.
No
No picture with video input sources
Check AV source selecting and decoding stage;
S-Video source
Check S-video signal (Y/C).
S-CHROMA signal is applied to pin 265 of IC301<Scaler>, and S-Y signal is applied on pin 264 of IC301.
S_SW signal (S-VIDEO:L) is input to pin 267 of IC301<Scaler>.
Component video source
Check component signal (Y/Cr,Pr/Cb,Pb).
The component signals are applied to pins 256, 78, 172 of IC301 <Scaler>.
Composite video source
Check composite video signal (Video).
The composite video signal is applied to pins 262 of IC301 <Scaler>.

No Sound

Check following steps.


Check if the audio signal is observed at pins 10 and 21 of IC5001.
No
Check IC5001 and peripheral circuit.
Check 9V_AUDIO, 16V power supply.
Yes
Check if the audio signal is observed at pins 5 and 7 of IC5041.
No
Check IC5041, 9V_AUDIO and peripheral circuit.
Check the Mute signal at pin 7 of IC5041. The Mute signal is output from pin 201 of IC 301<Scaler>. The OUT_DET signal is sent from Audio Out terminal.
Mute-On: H at pin 201 of IC301, L at pin7 of IC5041
Yes
Check audio output circuit.
Check speaker, connection of the terminal "K8F"

Control Port Functions

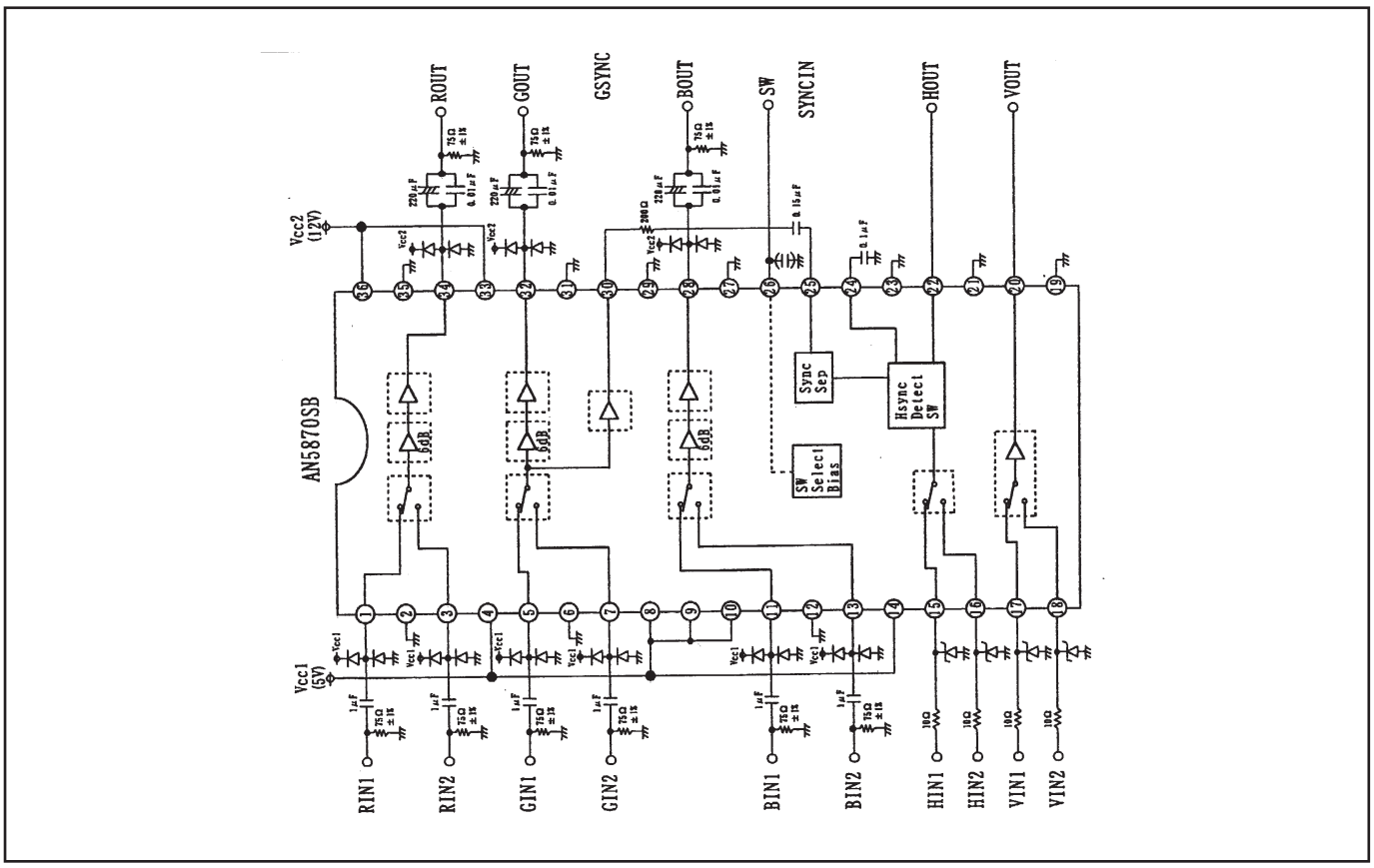
Scaler I/O Port Functions (PW190)

Pin No.	Name	Function Name	Function	I/O
1	Switch	DDC-SW2	DDC mode switch OFF:L	O
101	Switch	DDC-SW1	DDC mode switch OFF:L	O
278	Switch	COMP_SW	Component switch	O
277	MCI	DE_MCI	MCI data enable	O
193	MCI	CK_MCI	MCI clock	O
2	MCI	VS_MCI	MCI H-sync	O
102	MCI	HS_MCI	MCI V-sync	O
11	Switch	PC1/PC2_SW	PC1/PC2 switch PC1:L	O
110	5VA	ON_5VA_PW	5V power ON/OFF ON : H	O
201		MUTE	Audio Mute ON : H	O
111	Gamma	SCS_PW	3 wire Chip Select	O
285	Switch	FAN_SW1	Fan control switch	O
202	Gamma	SDATA_PW_EXT	3 wire Data	O
362	Gamma	IRM_RST	Degital Gamma reset	O
204		PW_DCLK		O
206		PW_VS	V-sync	O
288		PW_HS	H-sync	O
205		PW_DE	Data enable	O
367		SCLK_PW_EXT		O
293	Signal	SCL0	IIC Bus SCL0	O
211	Signal	SCL1	IIC Bus SCL1	O
294	Signal	SDA1	IIC Bus SDA1	O
212	Signal	SDA0	IIC Bus SDA0	O
214	R/C	IRRECVR0	Wireless R/C	I
295	TXD	CH0_TXD	Serial control TXD	O
26	RXD	CHO_RXD	Serial control RXD	I
124		PW_EX_UART		O
368		EX_PW_UART		I
28	KEY	KEY1	Key control output	O
126	KEY	KEY2	Key control output	O
215	P_FAIL	P_FAIL	Power Failure signal input Failure : L	I
127	P_FAIL	P_FAIL_1.8	Power Failure signal input Failure : L	I
216	KEY	KEY3	Key control output	O
30	FAN	FAN_CON_2	Fan control_2	O
128	FAN	FAN_CON_3	Fan control_3	O
373	FAN	FAN_CON_1	Fan control_1	O
50	RESET	MNI_RESET		I
319		ROMOE		O
59		XCSO		O
241		XCSO_IO		O
154		FAULT		I
242		XINT		I
155		ROMWE		O
60		XWR		O
243		XRD		O
161	VS	VS	V-sync	I
162	RESET	PW_RESET		I
331	HS	HS	H-sync	I
256	COMPONENT	CB	Component Video signal	I
78	COMPONENT	Y	Y Component Video signal	I

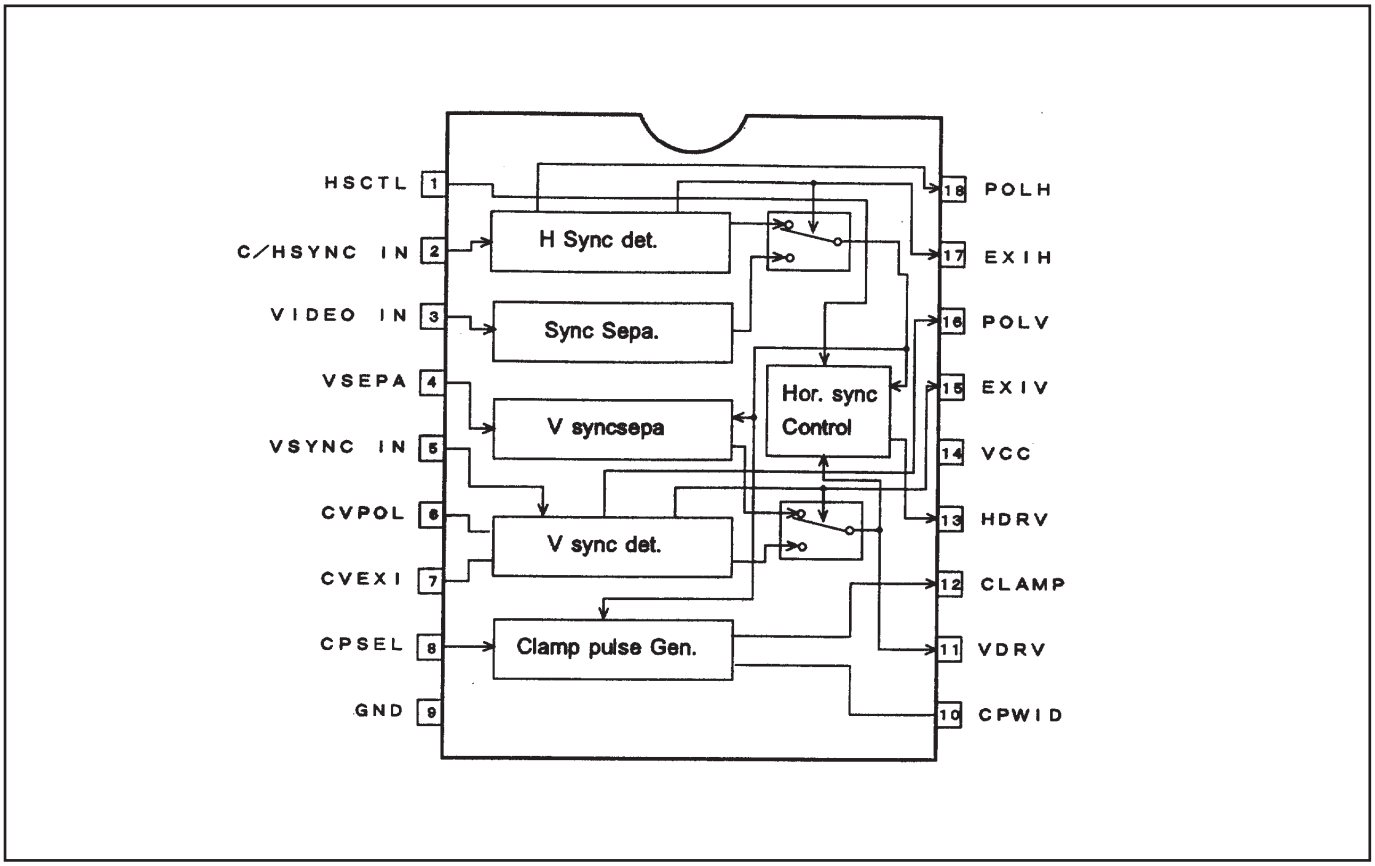
Pin No.	Name	Function Name	Function	I/O
172	COMPONENT	CR	Component Video signal	I
258	ANALOG RGB	B1	Analog RBG	I
82	ANALOG RGB	R1	Analog RBG	I
260	ANALOG RGB	G1	Analog RBG	I
262	VIDEO	VIDEO		I
263		GSYNC		I
409		YSYNC		I
86	ANALOG RGB	SCART_CV	H1-IN	I
264	S-VIDEO	S_Y		I
265	S-VIDEO	S_CHROMA		I
344		ON_15.5V_PW	15.5V Power drive Power ON : H	O
413	LAMP	BLAST_AC	Power control, Power ON : H	O
182	SIGNAL	CABLE_SW	Long cable switch	O
89	LAMP	LAMPDC_ON_SW	Lamp control, Power ON : H	O
267	SIGNAL	S-SW	S-video input switch	I
474	I/O	WAKEUP	For I/O Expabder	I
183	I/O	XRESET	I/O Expander reset	O
90	I/O	XSTBYEN	Stanby mode enable/disenable	O
268	SIGNAL	MONIT_OUT	Monitor out/Computer switch Monitor Out : H	O
346	LED	PW_POWER_LED_EX	POWER LED Drive, ON : H	O
91	LED	PW_READY_LED_EX	READY LED Drive, ON : H	O
184	LED	PW_TEMP_LED_EX	TEMP LED Drive, ON : H	O
269	LED	PW_LAMP_LED_EX	LAMP LED Drive, ON : H	O
94	LED	PW_FILTER_LED_EX	FILTER LED Drive, on : h	O
92	POWER	DC_ON_PW	IIC Bus control	O
185	LAMP	LAMP_DET	Power control , Power ON : H	I
347		STB_FPGA		I
273	STANDBY	MCU_STAT		I
189	STANDBY	PW_MASTER_SDI		O
420	STANDBY	PW_MASTER_SCK		O
97	STANDBY	PW_MASTER_SD0		I
208	Signal	SDA2	IIC Bus SDA2	O
290	Signal	SCL2	IIC Bus SCL2	O

IC Block Diagrams

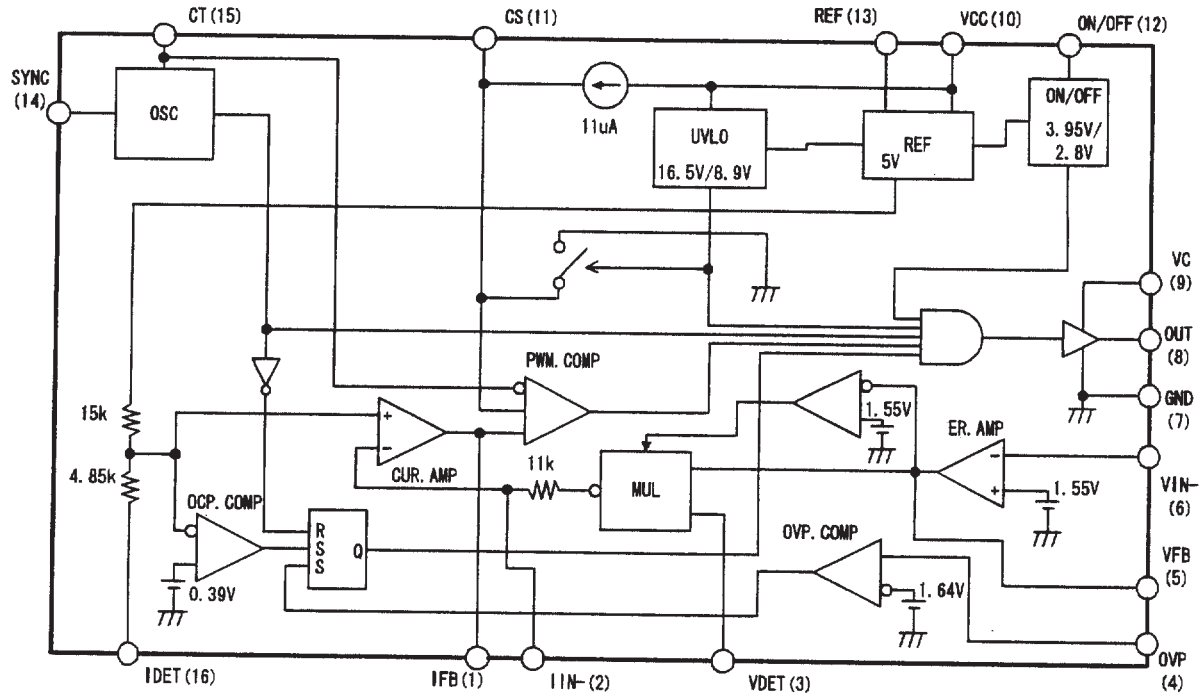
● AN5870 <Signal Switch, IC5201>



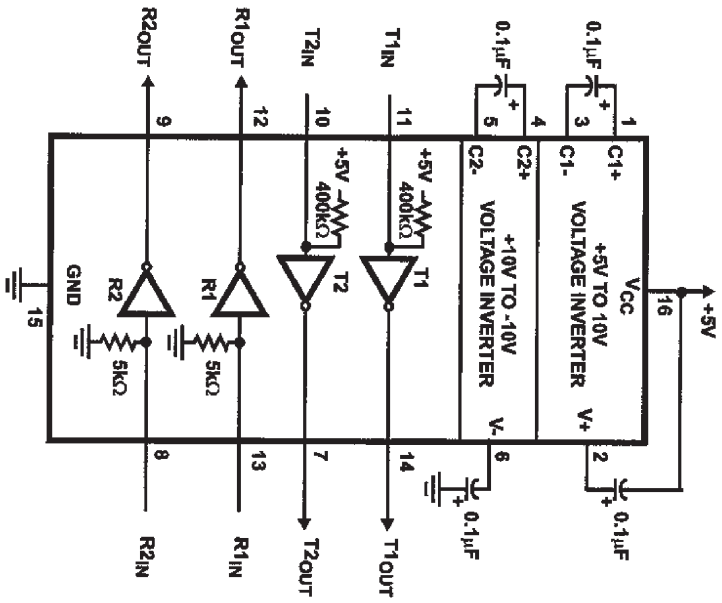
● BA7078 <Sync Separator, IC5301>



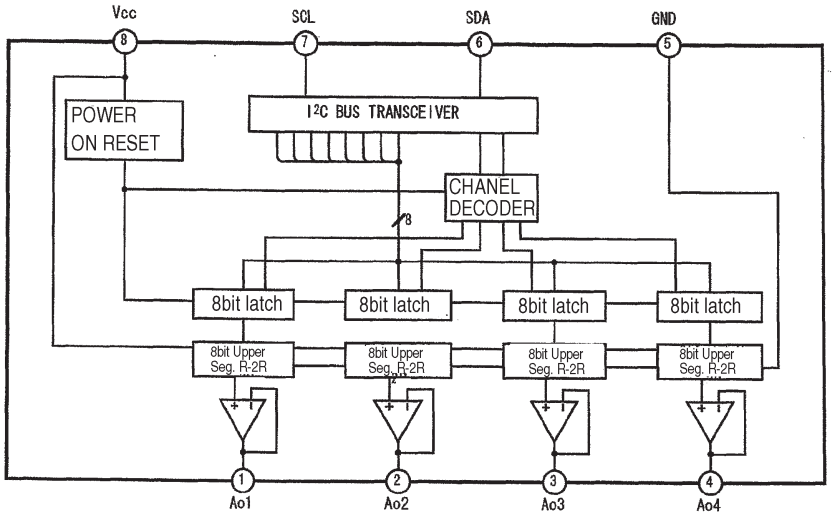
● FA5502 <P.F. Control, IC601>



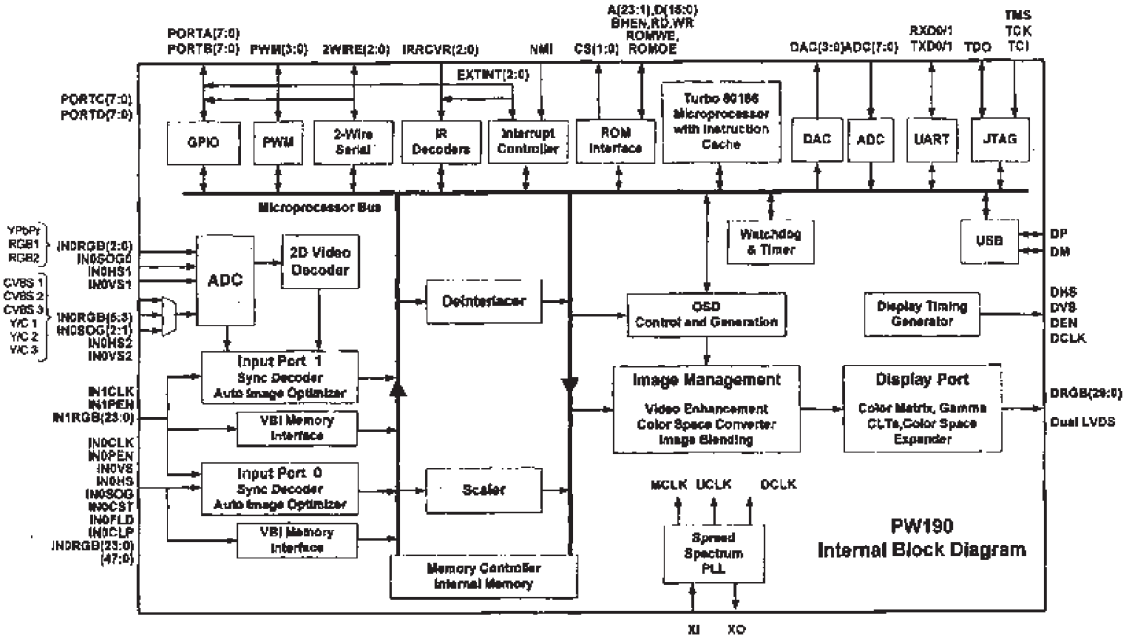
● HIN202EIB <RS-232C Driver, IC3801>



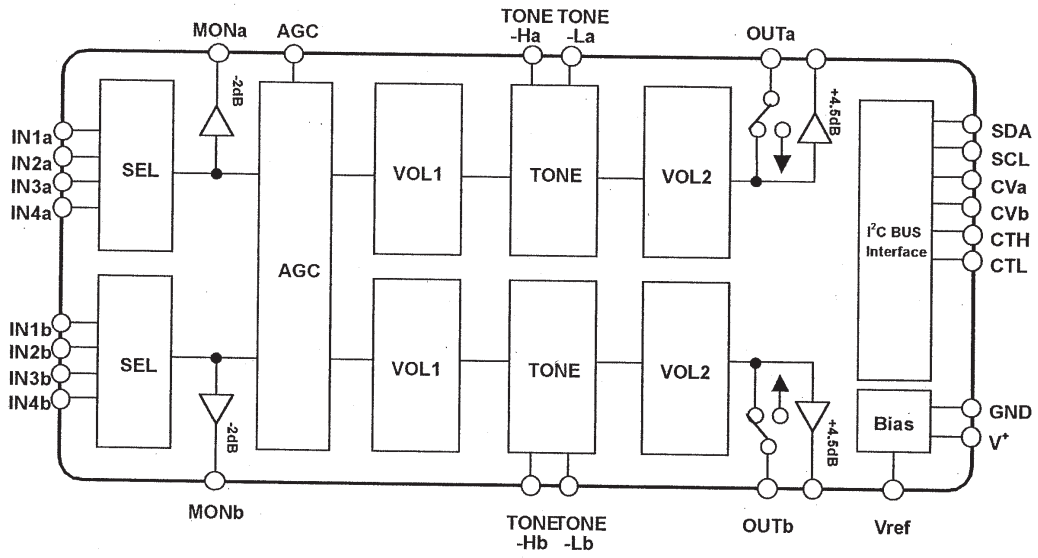
● M62334 <DAC (For Fan Control), IC3501>



● PW190 <Scaler, IC301>



● NJW1141 <Audio Control, IC5001>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● **Read Description in the parts list**

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:
A: General B: Non flammable Z: Low noise
Other: Temperature coefficient

T: ±10ppm/℃	U: ±25ppm/℃	C: ±50ppm/℃
D: ±100ppm/℃	E: ±200ppm/℃	F: ±250ppm/℃
G: ±350ppm/℃	H: ±1000ppm/℃±10%	W: ±1200ppm/℃±10%
Y: ±1400ppm/℃±10%	J: ±2000ppm/℃±10%	K: ±2400ppm/℃±10%
L: ±2700ppm/℃±10%	M: ±3000ppm/℃±10%	N: ±3300ppm/℃±10%
P: ±3600ppm/℃±10%	Q: ±3900ppm/℃±10%	R: ±4200ppm/℃±10%
S: ±4300ppm/℃±10%	V: ±4500ppm/℃±10%	X: ±8000ppm/℃±10%

Tolerance Symbols:
A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
F: ±1% G: ±2% J: ±5% K: ±10%
M: ±20% P: +5-15% Z: 0 ohm

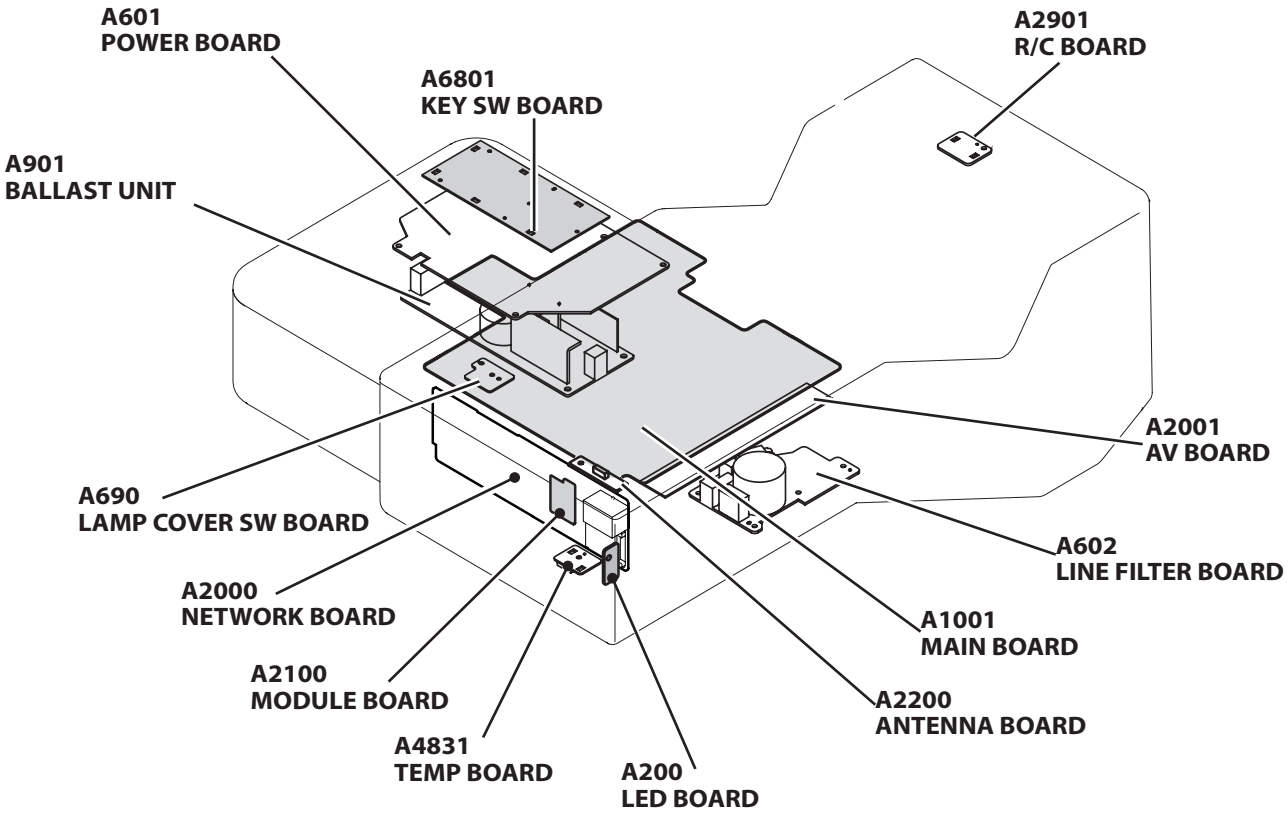
Rated value, ohms:
K: 1,000, M: 1,000,000

Material:

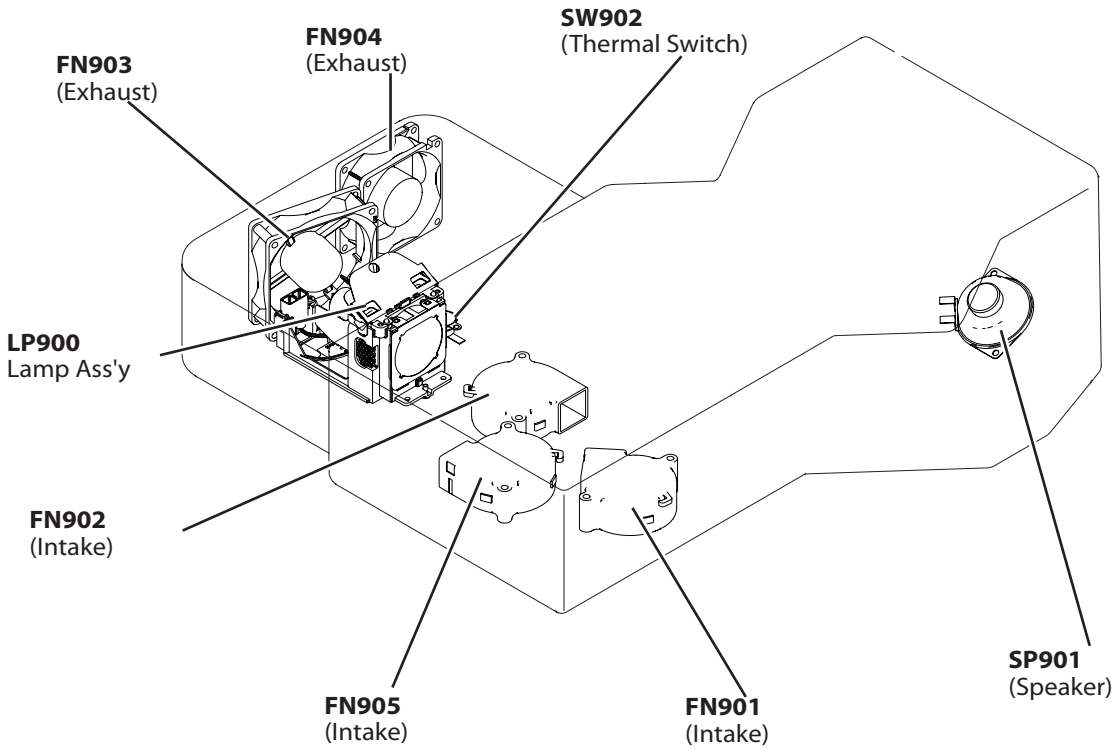
CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Elecrical Parts Location

● **Assemblied Board**



● **Out of Circuit Board**



Key. No.	Part No.	Description

ASSEMBLED BOARDS

⚠	A2100	610 340 2147	ASSY,PWB,MODULE.KV7A
⚠	A2200	610 340 2123	ASSY,PWB,ANTENNA.KV7A
⚠	A2000	610 348 0909	ASSY,PWB,NETWORK.KV7AE
⚠	A601	610 346 7160	ASSY,PWB,POWER KM3AB
⚠	A602	610 347 8586	ASSY,PWB,LINE FILTER LM3WB
⚠	A1001	610 347 2072	ASSY,PWB,MAIN.KV7AE
⚠	A2001	610 347 2096	ASSY,PWB,AV.KV7AE
⚠	A2901	610 347 2126	ASSY,PWB,R/C.KV7AE
⚠	A690	610 347 2119	ASSY,PWB,LAMP COVER SW.KV7AE
⚠	A4831	610 347 2133	ASSY,PWB,TEMP.KV7AE
⚠	A6801	610 347 2157	ASSY,PWB,KEY SW.KV7AE
⚠	A200	610 347 2140	ASSY,LED.KV7AE

OUT OF CIRCUIT BOARD

⚠	A901	610 336 8849	UNIT,BALLAST+CV
	L901	945 023 4959	CORE,CLAMP
	L902	945 023 4959	CORE,CLAMP
⚠	LP901	610 337 9937	COMPL,OPT LMP KM3A
⚠	FN901	645 094 1054	MOTOR,BLW DC 3.96W
⚠	FN902	645 094 1030	MOTOR,BLW DC 3.96W
⚠	FN903	645 094 1023	MOTOR,FAN DC 2.40W
⚠	FN904	645 101 9677	MOTOR,FAN DC 2.40W
⚠	FN905	645 094 1047	MOTOR,BLW DC 3.96W
	SP901	945 047 7585	SPEAKER,8
⚠	SW902	945 048 3159	SWITCH,THERMAL(100DEG)
	Z9502&99	610 335 3111	CORD,SHIELD 1P

A2100 610 340 2147 ASSY,PWB,MODULE.KV7A

TRANSISTOR

Q9501	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F

INTEGRATED CIRCUIT

IC9501	410 641 8400	IC RF-LEG2000SB01

CAPACITOR

C9501	303 230 3616	TA-SOLID	47U M	6.3V
	303 384 4712	TA-SOLID	47U M	6.3V
C9502	303 409 3426	CERAMIC	0.1U K	16V
C9503	303 409 3426	CERAMIC	0.1U K	16V
C9504	303 409 3426	CERAMIC	0.1U K	16V

RESISTOR

R9501	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R9502	301 225 1418	MT-GLAZE	47K JA	1/16W
R9506	301 224 8913	MT-GLAZE	100K JA	1/16W

COIL

L9501	945 041 1978	INDUCTOR,330 OHM

MISCELLANEOUS

K9502	645 078 6181	PLUG,ANT 1P
	645 096 4022	PLUG,ANT 1P

Key. No.	Part No.	Description

A2200 610 340 2123 ASSY,PWB,ANTENNA.KV7A

CAPACITOR

C9901	403 466 7416	CERAMIC	0.9P B	50V
C9902	645 073 5554	INDUCTOR,0.0091U J		

MISCELLANEOUS

IC9901	645 093 2847	ANNTENA,WIRELESS
K9901	645 078 6181	PLUG,ANT 1P
	645 096 4022	PLUG,ANT 1P

A2000 610 348 0909 ASSY,PWB,NETWORK.KV7AE

TRANSISTOR

Q5101	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5102	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q8601	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S

INTEGRATED CIRCUIT

IC8301	410 641 3900	IC MC9328MX21VM
IC8302	310 538 4907	IC 24LC64T-I/SNG
IC8303	309 301 5431	IC TC7S14FU(TE85L)
IC8304	309 301 5431	IC TC7S14FU(TE85L)
IC8451	410 650 3205	IC IS42S32400D-6BL
	410 672 3108	IC EM669325BK-6G
IC8551	410 650 3205	IC IS42S32400D-6BL
	410 672 3108	IC EM669325BK-6G
IC8601	410 631 4405	IC EP2C35F484C8N
IC8602	309 462 2420	IC TC7SZ08FU-(TE85L)
IC8851	410 641 4105	IC LAN9118-MT-REV.A
IC8902	309 553 4712	IC PQ070XZ02ZP
IC8932	410 643 5100	IC PQ070XNB1ZPH
IC8933	410 643 5100	IC PQ070XNB1ZPH
IC9701	310 428 4307	IC LM809M3-2.93
IC9711	309 334 0137	IC TC7W125FU
IC9746	309 334 0137	IC TC7W125FU

CAPACITOR

C5101	303 391 5511	ELECT	10U M	16V
C5102	303 391 5511	ELECT	10U M	16V
C5103	303 409 3426	CERAMIC	0.1U K	16V
C5104	303 409 3426	CERAMIC	0.1U K	16V
C5106	303 409 3426	CERAMIC	0.1U K	16V
C5107	303 441 9919	CERAMIC	6800P K	50V
C5108	303 441 9919	CERAMIC	6800P K	50V
C5109	303 409 3426	CERAMIC	0.1U K	16V

Key. No.	Part No.	Description		
C5111	303 391 5511	ELECT	10U M	16V
C5112	303 391 5511	ELECT	10U M	16V
C8001	303 441 9919	CERAMIC	6800P K	50V
C8002	303 441 9919	CERAMIC	6800P K	50V
C8151	303 409 3426	CERAMIC	0.1U K	16V
C8301	303 276 2819	CERAMIC	18P J	50V
C8302	303 305 8515	CERAMIC	15P J	50V
C8303	303 409 3426	CERAMIC	0.1U K	16V
C8304	303 409 3426	CERAMIC	0.1U K	16V
C8306	303 409 3426	CERAMIC	0.1U K	16V
C8309	303 409 3426	CERAMIC	0.1U K	16V
C8311	303 383 5215	CERAMIC	4.7U K	6.3V
	303 393 2112	CERAMIC	4.7U K	6.3V
C8312	303 409 3426	CERAMIC	0.1U K	16V
C8313	303 409 3426	CERAMIC	0.1U K	16V
C8314	303 409 3426	CERAMIC	0.1U K	16V
C8316	303 409 3426	CERAMIC	0.1U K	16V
C8317	303 409 3426	CERAMIC	0.1U K	16V
C8318	303 409 3426	CERAMIC	0.1U K	16V
C8319	303 409 3426	CERAMIC	0.1U K	16V
C8321	303 409 3426	CERAMIC	0.1U K	16V
C8322	303 409 3426	CERAMIC	0.1U K	16V
C8323	303 409 3426	CERAMIC	0.1U K	16V
C8324	303 409 3426	CERAMIC	0.1U K	16V
C8326	303 409 3426	CERAMIC	0.1U K	16V
C8327	303 409 3426	CERAMIC	0.1U K	16V
C8328	303 409 3426	CERAMIC	0.1U K	16V
C8329	303 409 3426	CERAMIC	0.1U K	16V
C8331	303 409 3426	CERAMIC	0.1U K	16V
C8501	303 409 3426	CERAMIC	0.1U K	16V
C8502	303 409 3426	CERAMIC	0.1U K	16V
C8503	303 409 3426	CERAMIC	0.1U K	16V
C8551	303 409 3426	CERAMIC	0.1U K	16V
C8552	303 409 3426	CERAMIC	0.1U K	16V
C8553	303 409 3426	CERAMIC	0.1U K	16V
C8554	303 409 3426	CERAMIC	0.1U K	16V
C8556	303 409 3426	CERAMIC	0.1U K	16V
C8557	303 409 3426	CERAMIC	0.1U K	16V
C8558	303 409 3426	CERAMIC	0.1U K	16V
C8561	303 409 3426	CERAMIC	0.1U K	16V
C8562	303 409 3426	CERAMIC	0.1U K	16V
C8563	303 409 3426	CERAMIC	0.1U K	16V
C8564	303 409 3426	CERAMIC	0.1U K	16V
C8566	303 409 3426	CERAMIC	0.1U K	16V
C8567	303 409 3426	CERAMIC	0.1U K	16V
C8568	303 409 3426	CERAMIC	0.1U K	16V
C8601	303 409 3426	CERAMIC	0.1U K	16V
C8602	303 409 3426	CERAMIC	0.1U K	16V
C8603	303 409 3426	CERAMIC	0.1U K	16V
C8604	303 409 3426	CERAMIC	0.1U K	16V
C8606	303 409 3426	CERAMIC	0.1U K	16V
C8607	303 409 3426	CERAMIC	0.1U K	16V
C8608	303 409 3426	CERAMIC	0.1U K	16V
C8609	303 409 3426	CERAMIC	0.1U K	16V
C8611	303 409 3426	CERAMIC	0.1U K	16V
C8621	303 409 3426	CERAMIC	0.1U K	16V
C8622	303 409 3426	CERAMIC	0.1U K	16V
C8623	303 409 3426	CERAMIC	0.1U K	16V
C8624	303 409 3426	CERAMIC	0.1U K	16V
C8626	303 409 3426	CERAMIC	0.1U K	16V
C8627	303 409 3426	CERAMIC	0.1U K	16V
C8628	303 409 3426	CERAMIC	0.1U K	16V
C8629	303 409 3426	CERAMIC	0.1U K	16V
C8631	303 409 3426	CERAMIC	0.1U K	16V
C8632	303 409 3426	CERAMIC	0.1U K	16V

Key. No.	Part No.	Description		
C8633	303 409 3426	CERAMIC	0.1U K	16V
C8634	303 409 3426	CERAMIC	0.1U K	16V
C8636	303 409 3426	CERAMIC	0.1U K	16V
C8637	303 409 3426	CERAMIC	0.1U K	16V
C8638	303 409 3426	CERAMIC	0.1U K	16V
C8639	303 409 3426	CERAMIC	0.1U K	16V
C8641	303 409 3426	CERAMIC	0.1U K	16V
C8642	303 409 3426	CERAMIC	0.1U K	16V
C8643	303 409 3426	CERAMIC	0.1U K	16V
C8644	303 409 3426	CERAMIC	0.1U K	16V
C8646	303 409 3426	CERAMIC	0.1U K	16V
C8647	303 409 3426	CERAMIC	0.1U K	16V
C8648	303 409 3426	CERAMIC	0.1U K	16V
C8649	303 409 3426	CERAMIC	0.1U K	16V
C8651	303 409 3426	CERAMIC	0.1U K	16V
C8652	303 409 3426	CERAMIC	0.1U K	16V
C8653	303 409 3426	CERAMIC	0.1U K	16V
C8654	303 409 3426	CERAMIC	0.1U K	16V
C8656	303 409 3426	CERAMIC	0.1U K	16V
C8657	303 409 3426	CERAMIC	0.1U K	16V
C8658	303 409 3426	CERAMIC	0.1U K	16V
C8659	303 409 3426	CERAMIC	0.1U K	16V
C8661	303 409 3426	CERAMIC	0.1U K	16V
C8662	303 409 3426	CERAMIC	0.1U K	16V
C8663	303 409 3426	CERAMIC	0.1U K	16V
C8664	303 409 3426	CERAMIC	0.1U K	16V
C8671	303 409 3426	CERAMIC	0.1U K	16V
C8673	303 409 3426	CERAMIC	0.1U K	16V
C8674	303 409 3426	CERAMIC	0.1U K	16V
C8676	303 409 3426	CERAMIC	0.1U K	16V
C8677	303 409 3426	CERAMIC	0.1U K	16V
C8678	303 409 3426	CERAMIC	0.1U K	16V
C8679	303 409 3426	CERAMIC	0.1U K	16V
C8681	303 409 3426	CERAMIC	0.1U K	16V
C8682	303 409 3426	CERAMIC	0.1U K	16V
C8683	303 409 3426	CERAMIC	0.1U K	16V
C8684	303 409 3426	CERAMIC	0.1U K	16V
C8686	303 409 3426	CERAMIC	0.1U K	16V
C8687	303 409 3426	CERAMIC	0.1U K	16V
C8688	303 409 3426	CERAMIC	0.1U K	16V
C8689	303 409 3426	CERAMIC	0.1U K	16V
C8691	303 409 3426	CERAMIC	0.1U K	16V
C8692	303 409 3426	CERAMIC	0.1U K	16V
C8693	303 409 3426	CERAMIC	0.1U K	16V
C8694	303 409 3426	CERAMIC	0.1U K	16V
C8696	303 409 3426	CERAMIC	0.1U K	16V
C8697	303 409 3426	CERAMIC	0.1U K	16V
C8698	303 409 3426	CERAMIC	0.1U K	16V
C8851	303 276 2918	CERAMIC	12P J	50V
C8852	303 276 2918	CERAMIC	12P J	50V
C8853	303 441 9810	CERAMIC	0.01U K	50V
C8854	303 391 5511	ELECT	10U M	16V
C8856	303 441 9810	CERAMIC	0.01U K	50V
C8857	303 441 9810	CERAMIC	0.01U K	50V
C8858	303 391 5511	ELECT	10U M	16V
C8861	303 409 3426	CERAMIC	0.1U K	16V
C8862	303 409 3426	CERAMIC	0.1U K	16V
C8863	303 409 3426	CERAMIC	0.1U K	16V
C8864	303 409 3426	CERAMIC	0.1U K	16V
C8866	303 409 3426	CERAMIC	0.1U K	16V
C8868	303 409 3426	CERAMIC	0.1U K	16V
C8869	303 409 3426	CERAMIC	0.1U K	16V
C8870	303 394 1312	ELECT	100U M	6.3V
	303 427 9315	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V

Key. No.	Part No.	Description		
C8871	303 409 3426	CERAMIC	0.1U K	16V
C8872	303 409 3426	CERAMIC	0.1U K	16V
C8873	303 409 3426	CERAMIC	0.1U K	16V
C8874	303 409 3426	CERAMIC	0.1U K	16V
C8876	303 409 3426	CERAMIC	0.1U K	16V
C8877	303 409 3426	CERAMIC	0.1U K	16V
C8878	303 409 3426	CERAMIC	0.1U K	16V
C8879	303 385 3219	TA-SOLID	10U K	10V
C8881	303 409 3426	CERAMIC	0.1U K	16V
C8882	303 409 3426	CERAMIC	0.1U K	16V
C8883	303 441 9810	CERAMIC	0.01U K	50V
C8884	303 441 9810	CERAMIC	0.01U K	50V
C8886	303 441 9810	CERAMIC	0.01U K	50V
C8887	303 441 9810	CERAMIC	0.01U K	50V
C8888	303 441 9810	CERAMIC	0.01U K	50V
C8889	303 441 9810	CERAMIC	0.01U K	50V
C8891	303 441 9810	CERAMIC	0.01U K	50V
C8892	303 441 9810	CERAMIC	0.01U K	50V
C8893	303 441 9810	CERAMIC	0.01U K	50V
C8894	303 441 9810	CERAMIC	0.01U K	50V
C8896	303 441 9810	CERAMIC	0.01U K	50V
C8897	303 441 9810	CERAMIC	0.01U K	50V
C8898	303 409 3426	CERAMIC	0.1U K	16V
C8906	303 409 3426	CERAMIC	0.1U K	16V
C8907	303 394 9318	ELECT	220U M	6.3V
	303 413 1811	ELECT	220U M	6.3V
C8908	303 409 3426	CERAMIC	0.1U K	16V
C8932	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C8933	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C8936	303 394 1312	ELECT	100U M	6.3V
	303 427 9315	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C8937	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8938	303 394 1312	ELECT	100U M	6.3V
	303 427 9315	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C8939	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8941	303 394 1312	ELECT	100U M	6.3V
	303 427 9315	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C8942	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8943	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C8944	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C9301	303 409 3426	CERAMIC	0.1U K	16V
C9302	303 409 3426	CERAMIC	0.1U K	16V
C9303	303 409 3426	CERAMIC	0.1U K	16V
C9304	303 409 3426	CERAMIC	0.1U K	16V
C9701	303 391 5511	ELECT	10U M	16V
C9702	303 409 3426	CERAMIC	0.1U K	16V
C9703	303 409 3426	CERAMIC	0.1U K	16V
C9706	303 409 3426	CERAMIC	0.1U K	16V
C9711	303 409 3426	CERAMIC	0.1U K	16V
RESISTOR				
R5101	301 225 8110	MT-GLAZE	10 JA	1/16W
R5102	301 225 8110	MT-GLAZE	10 JA	1/16W
R5103	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R5104	301 275 1819	MT-GLAZE	1.1K JA	1/16W
R5106	301 235 1415	MT-GLAZE	1.2K JA	1/16W

Key. No.	Part No.	Description		
R5107	301 275 1819	MT-GLAZE	1.1K JA	1/16W
R5108	301 263 6928	MT-GLAZE	2K JA	1/16W
R5109	301 263 6928	MT-GLAZE	2K JA	1/16W
R5111	301 240 5613	MT-GLAZE	3K JA	1/16W
R5112	301 240 5613	MT-GLAZE	3K JA	1/16W
R8001	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8003	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8006	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8007	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8012	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8013	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8019	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R8021	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R8023	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R8024	301 341 0616	MT-GLAZE	49.9 FA	1/16W
R8026	301 326 1515	MT-GLAZE	10 FA	1/16W
R8028	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8031	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8032	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8033	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8151	301 224 8814	MT-GLAZE	100 JA	1/16W
R8152	301 224 8814	MT-GLAZE	100 JA	1/16W
R8153	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8154	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8156	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8157	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8158	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8303	301 224 9019	MT-GLAZE	10K JA	1/16W
R8304	301 224 9019	MT-GLAZE	10K JA	1/16W
R8306	301 224 9019	MT-GLAZE	10K JA	1/16W
R8308	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8309	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8322	301 224 9019	MT-GLAZE	10K JA	1/16W
R8331	301 224 9019	MT-GLAZE	10K JA	1/16W
R8338	301 224 9019	MT-GLAZE	10K JA	1/16W
R8353	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8354	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8357	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8358	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8359	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8361	301 224 9019	MT-GLAZE	10K JA	1/16W
R8362	301 224 9019	MT-GLAZE	10K JA	1/16W
R8363	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8364	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8366	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8367	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R8368	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R8381	301 224 9019	MT-GLAZE	10K JA	1/16W
R8403	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8417	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8418	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8452	301 224 9712	MT-GLAZE	22 JA	1/16W
R8453	301 224 9019	MT-GLAZE	10K JA	1/16W
R8456	301 224 9019	MT-GLAZE	10K JA	1/16W
R8457	301 224 9019	MT-GLAZE	10K JA	1/16W
R8458	301 224 9019	MT-GLAZE	10K JA	1/16W
R8459	301 224 9019	MT-GLAZE	10K JA	1/16W
R8465	301 224 9712	MT-GLAZE	22 JA	1/16W
R8466	301 224 9712	MT-GLAZE	22 JA	1/16W
R8467	301 224 9712	MT-GLAZE	22 JA	1/16W
R8468	301 224 9019	MT-GLAZE	10K JA	1/16W
R8469	301 224 9019	MT-GLAZE	10K JA	1/16W
R8472	301 224 9019	MT-GLAZE	10K JA	1/16W
R8474	301 224 9019	MT-GLAZE	10K JA	1/16W
R8476	301 226 1516	MT-GLAZE	0.000 ZA	1/16W

Key. No.	Part No.	Description		
R8477	301 224 8913	MT-GLAZE	100K JA	1/16W
R8478	301 224 9019	MT-GLAZE	10K JA	1/16W
R8479	301 224 9019	MT-GLAZE	10K JA	1/16W
R8481	301 224 9019	MT-GLAZE	10K JA	1/16W
R8484	301 224 9019	MT-GLAZE	10K JA	1/16W
R8492	301 224 9019	MT-GLAZE	10K JA	1/16W
R8496	301 224 9019	MT-GLAZE	10K JA	1/16W
R8503	301 224 9019	MT-GLAZE	10K JA	1/16W
R8504	301 224 9019	MT-GLAZE	10K JA	1/16W
R8506	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8507	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8508	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8564	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8567	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8569	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8574	301 224 9712	MT-GLAZE	22 JA	1/16W
R8601	301 225 8110	MT-GLAZE	10 JA	1/16W
R8602	301 224 9316	MT-GLAZE	1K JA	1/16W
R8603	301 225 8110	MT-GLAZE	10 JA	1/16W
R8604	301 225 8110	MT-GLAZE	10 JA	1/16W
R8606	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8607	301 225 8110	MT-GLAZE	10 JA	1/16W
R8608	301 224 9316	MT-GLAZE	1K JA	1/16W
R8609	301 224 9316	MT-GLAZE	1K JA	1/16W
R8611	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8612	301 224 9019	MT-GLAZE	10K JA	1/16W
R8613	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8614	301 224 9019	MT-GLAZE	10K JA	1/16W
R8616	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8617	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8618	301 224 9019	MT-GLAZE	10K JA	1/16W
R8619	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8621	301 224 9019	MT-GLAZE	10K JA	1/16W
R8622	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R8623	301 225 8011	MT-GLAZE	330 JA	1/16W
R8624	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8626	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8627	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8628	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8629	301 224 9019	MT-GLAZE	10K JA	1/16W
R8631	301 224 9019	MT-GLAZE	10K JA	1/16W
R8632	301 224 9019	MT-GLAZE	10K JA	1/16W
R8633	301 224 9019	MT-GLAZE	10K JA	1/16W
R8634	301 224 9019	MT-GLAZE	10K JA	1/16W
R8637	301 225 0312	MT-GLAZE	33 JA	1/16W
R8639	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8642	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8643	301 224 9019	MT-GLAZE	10K JA	1/16W
R8644	301 224 9019	MT-GLAZE	10K JA	1/16W
R8645	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8646	301 224 9019	MT-GLAZE	10K JA	1/16W
R8647	301 224 9019	MT-GLAZE	10K JA	1/16W
R8648	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8650	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8651	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8652	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8653	301 224 9019	MT-GLAZE	10K JA	1/16W
R8654	301 224 9019	MT-GLAZE	10K JA	1/16W
R8655	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8656	301 224 9019	MT-GLAZE	10K JA	1/16W
R8657	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8658	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8659	301 224 9019	MT-GLAZE	10K JA	1/16W
R8660	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8661	301 224 9019	MT-GLAZE	10K JA	1/16W
R8662	301 224 9019	MT-GLAZE	10K JA	1/16W
R8663	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8664	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8665	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8666	301 224 9019	MT-GLAZE	10K JA	1/16W
R8667	301 224 9019	MT-GLAZE	10K JA	1/16W
R8668	301 224 9019	MT-GLAZE	10K JA	1/16W
R8670	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8671	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8673	301 224 9019	MT-GLAZE	10K JA	1/16W
R8675	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8680	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8685	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8686	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8687	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8688	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8689	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8690	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8691	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8692	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8693	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8694	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8695	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8696	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8697	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8698	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8699	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8851	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R8852	301 224 9415	MT-GLAZE	1M JA	1/16W
R8853	301 299 5312	MT-GLAZE	12K FA	1/16W
R8854	301 224 9019	MT-GLAZE	10K JA	1/16W
R8856	301 294 3115	MT-GLAZE	1K FA	1/16W
R8857	301 224 9019	MT-GLAZE	10K JA	1/16W
R8858	301 294 3016	MT-GLAZE	10K FA	1/16W
R8859	401 354 0518	MT-GLAZE	12.4K DA	1/16W
R8861	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8862	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8863	301 224 9019	MT-GLAZE	10K JA	1/16W
R8864	301 224 9019	MT-GLAZE	10K JA	1/16W
R8865	301 224 9019	MT-GLAZE	10K JA	1/16W
R8866	301 224 9019	MT-GLAZE	10K JA	1/16W
R8867	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R8868	301 235 1415	MT-GLAZE	1.2K JA	1/16W
R8869	301 224 9712	MT-GLAZE	22 JA	1/16W
R8871	301 224 9712	MT-GLAZE	22 JA	1/16W
R8872	301 224 9712	MT-GLAZE	22 JA	1/16W
R8873	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R8874	301 224 9712	MT-GLAZE	22 JA	1/16W
R8875	301 224 9712	MT-GLAZE	22 JA	1/16W
R8876	301 224 9712	MT-GLAZE	22 JA	1/16W
R8878	301 224 9712	MT-GLAZE	22 JA	1/16W
R8879	301 224 9712	MT-GLAZE	22 JA	1/16W
R8881	301 224 9712	MT-GLAZE	22 JA	1/16W
R8882	301 224 9712	MT-GLAZE	22 JA	1/16W
R8883	301 224 9712	MT-GLAZE	22 JA	1/16W
R8884	301 224 9712	MT-GLAZE	22 JA	1/16W
R8886	301 224 9712	MT-GLAZE	22 JA	1/16W
R8887	301 224 9712	MT-GLAZE	22 JA	1/16W
R8901	945 086 5368	IMPEDANCE,220 OHM P		
R8902	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8903	301 301 3510	MT-GLAZE	200 JA	1/16W
R8904	301 224 9316	MT-GLAZE	1K JA	1/16W
R8906	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R8911	945 086 5368	IMPEDANCE,220 OHM P		
R8921	945 086 5368	IMPEDANCE,220 OHM P		

Key. No.	Part No.	Description
R8931	945 086 5368	IMPEDANCE,220 OHM P
R8932	301 294 3115	MT-GLAZE 1K FA 1/16W
R8933	301 272 7814	MT-GLAZE 100 FA 1/16W
R8934	301 326 1515	MT-GLAZE 10 FA 1/16W
R8936	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R8937	301 294 3115	MT-GLAZE 1K FA 1/16W
R8938	301 272 7814	MT-GLAZE 100 FA 1/16W
R8939	301 326 1515	MT-GLAZE 10 FA 1/16W
R8942	945 086 5368	IMPEDANCE,220 OHM P
R9701	301 224 9316	MT-GLAZE 1K JA 1/16W
R9702	301 224 9316	MT-GLAZE 1K JA 1/16W
R9711	301 224 9019	MT-GLAZE 10K JA 1/16W
R9712	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9713	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9714	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9716	301 236 7119	MT-GLAZE 620 JA 1/16W
R9717	301 224 9316	MT-GLAZE 1K JA 1/16W
R9721	301 225 3818	MT-GLAZE 1.5K JA 1/16W
R9732	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9734	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R9741	301 225 8110	MT-GLAZE 10 JA 1/16W
R9742	301 224 9316	MT-GLAZE 1K JA 1/16W
R9744	301 224 9316	MT-GLAZE 1K JA 1/16W
R9747	301 150 5918	MT-GLAZE 10K JA 1/10W
R9749	301 225 8110	MT-GLAZE 10 JA 1/16W
RB8301	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8302	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8303	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8304	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8306	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8307	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8308	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8309	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8311	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8312	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8313	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8314	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8316	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8317	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8318	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8319	945 036 0979	R-NETWORK 10KX4 1/32W
	945 028 0710	R-NETWORK 10KX4 1/16W
RB8321	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8322	945 036 0979	R-NETWORK 10KX4 1/32W
	945 028 0710	R-NETWORK 10KX4 1/16W
RB8323	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8324	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W

Key. No.	Part No.	Description
RB8325	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8326	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8327	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8328	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8329	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8330	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8331	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8332	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8333	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8851	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8852	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8853	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8854	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8856	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8857	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8858	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8859	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8861	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8862	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8863	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8864	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8866	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8867	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8868	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8869	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8871	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8872	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8873	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8874	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB8876	945 034 5051	R-NETWORK 22X4 1/32W
	945 037 0824	R-NETWORK 22X4 1/16W
RB9731	945 036 0979	R-NETWORK 10KX4 1/32W
	945 028 0710	R-NETWORK 10KX4 1/16W

COIL

L5101	945 062 2824	INDUCTOR,3.3U M
L8851	945 062 2824	INDUCTOR,3.3U M

Key. No.	Part No.	Description
L8932	945 062 2824	INDUCTOR,3.3U M
L8933	945 062 2824	INDUCTOR,3.3U M
L8934	945 062 2824	INDUCTOR,3.3U M
L8936	945 062 2824	INDUCTOR,3.3U M
L8937	945 062 2824	INDUCTOR,3.3U M
L8941	645 072 0604	IMPEDANCE,120 OHM P
L8942	645 072 0604	IMPEDANCE,120 OHM P
L8943	645 072 0604	IMPEDANCE,120 OHM P
L8944	645 072 0604	IMPEDANCE,120 OHM P
L8946	645 072 0604	IMPEDANCE,120 OHM P
L8947	645 072 0604	IMPEDANCE,120 OHM P
DIODE		
D8151	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D8301	307 228 1011	LED SML-310MT-M-T86
D8302	307 228 1011	LED SML-310MT-M-T86
D8601	307 228 1011	LED SML-310MT-M-T86
D8901	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D8902	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D8903	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D8904	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D8906	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D8907	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D8911	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D9701	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D9711	307 228 1011	LED SML-310MT-M-T86
D9721	307 228 1011	LED SML-310MT-M-T86
MISCELLANEOUS		
K8151	945 071 8527	SOCKET,CARD(SD) 13P
K9602	645 093 6760	TRANS,PULSE
SC8151	945 076 3503	SURGE-ABSORBER
X8301	945 037 4600	OSC,CRYSTAL 32.768KHZ
X8851	945 083 7556	OSC,CRYSTAL 25.0MHZ
X8852	945 078 5697	OSC,CRYSTAL 25MHZ

A601 610 346 7160 ASSY,PWB,POWER KM3AB

TRANSISTOR		
Q611	305 217 6600	TR 2SK3934
Q612	305 217 6600	TR 2SK3934
Q621	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q622	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q641	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q642	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q643	405 223 4406	TR 2S4085LS
Q651	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q661	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC621	409 690 7918	IC FA5550N
IC631	309 653 7405	IC MR4010-7101
IC671	409 692 2515	IC TA76L431FB

CAPACITOR				
C611	303 222 1326	CERAMIC	1000P K	1K
C612	303 222 1326	CERAMIC	1000P K	1K
⚠ C613	303 371 8518	MT-POLYEST	1U K	400V
	303 427 2019	MT-POLYEST	1U K	400V
	303 451 4119	MT-POLYEST	1U K	450V
⚠ C614	303 371 8518	MT-POLYEST	1U K	400V
	303 427 2019	MT-POLYEST	1U K	400V
	303 451 4119	MT-POLYEST	1U K	450V
⚠ C615	404 115 2704	ELECT	330U M	420V
	404 115 6306	ELECT	330U M	420V
C621	303 336 3510	CERAMIC	0.47U K	16V
C622	303 356 5112	CERAMIC	0.047U K	50V
C623	303 215 2214	CERAMIC	0.01U K	50V
C625	303 215 2214	CERAMIC	0.01U K	50V
C626	303 396 9613	CERAMIC	1U K	25V
C627	303 113 4112	CERAMIC	2200P K	50V
C629	303 265 3216	CERAMIC	1000P J	50V
C631	303 157 4215	CERAMIC	220P J	50V
C632	303 245 4417	CERAMIC	470P K	2K
C633	303 265 3216	CERAMIC	1000P J	50V
C634	303 113 4112	CERAMIC	2200P K	50V
C641	303 367 0410	CERAMIC	0.1U K	50V
C644	303 417 9912	CERAMIC	4.7U K	25V
C651	303 411 1823	ELECT	220U M	35V
C653	303 367 0410	CERAMIC	0.1U K	50V
C661	303 445 4405	ELECT	1800U M	25V
C662	303 367 0410	CERAMIC	0.1U K	50V
C663	303 367 0410	CERAMIC	0.1U K	50V
C664	303 429 6718	ELECT	1500U M	10V
C665	303 409 9913	ELECT	470U M	16V
C671	303 367 0410	CERAMIC	0.1U K	50V
C672	303 410 7113	ELECT	100U M	25V

Key. No.	Part No.	Description		
C673	303 410 7113	ELECT	100U M	25V
C674	403 478 9019	MT-POLYEST	0.01U J	630V
RESISTOR				
R611	401 353 0311	MT-GLAZE	430K JA	1/3W
R612	401 353 0212	MT-GLAZE	360K JA	1/3W
R613	301 256 6314	MT-GLAZE	47K JA	1/10W
R614	402 109 8206	RESISTER	0.15 JB	5W
R615	401 361 2611	MT-GLAZE	680K DA	1/4W
R616	401 361 2611	MT-GLAZE	680K DA	1/4W
R617	301 256 6314	MT-GLAZE	47K JA	1/10W
R618	401 361 7111	MT-GLAZE	680K JA	1/3W
R619	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R620	301 256 5614	MT-GLAZE	47 JA	1/10W
R621	301 326 1812	MT-GLAZE	8.2K DA	1/10W
R622	301 309 8517	MT-GLAZE	330 DA	1/10W
R623	401 360 8010	MT-GLAZE	470 DA	1/10W
R624	301 162 2912	MT-GLAZE	220 JA	1/10W
R625	301 256 5614	MT-GLAZE	47 JA	1/10W
R626	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R627	301 150 5918	MT-GLAZE	10K JA	1/10W
R628	301 150 5918	MT-GLAZE	10K JA	1/10W
R629	301 255 7312	MT-GLAZE	510K JA	1/10W
R631	301 255 7718	MT-GLAZE	11K JA	1/10W
R632	401 361 7111	MT-GLAZE	680K JA	1/3W
R633	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R634	301 256 1715	MT-GLAZE	33K JA	1/10W
R635	401 361 2710	MT-FILM	0.39 JA	1W
R636	301 162 3018	MT-GLAZE	22K JA	1/10W
R637	301 256 7212	MT-GLAZE	18K JA	1/10W
R638	301 256 6314	MT-GLAZE	47K JA	1/10W
R641	301 150 5918	MT-GLAZE	10K JA	1/10W
R642	301 256 6611	MT-GLAZE	68K JA	1/10W
R643	301 150 5918	MT-GLAZE	10K JA	1/10W
R644	301 150 5918	MT-GLAZE	10K JA	1/10W
R646	301 256 7212	MT-GLAZE	18K JA	1/10W
R648	301 256 7212	MT-GLAZE	18K JA	1/10W
R651	301 150 5918	MT-GLAZE	10K JA	1/10W
R652	301 292 1915	MT-GLAZE	22 FA	1/2W
R662	301 152 3219	MT-GLAZE	330 JA	1/10W
R665	301 242 2313	MT-GLAZE	82K JA	1/2W
R671	301 256 7618	MT-GLAZE	3.9K JA	1/10W
R672	301 150 6212	MT-GLAZE	1K JA	1/10W
R673	301 264 2919	MT-GLAZE	12K FA	1/10W
R674	301 264 7518	MT-GLAZE	2.7K FA	1/10W
R675	301 162 3711	MT-GLAZE	4.7K JA	1/10W
R676	301 264 2810	MT-GLAZE	1.2K FA	1/10W
R683	301 265 0211	MT-GLAZE	390 FA	1/10W
R684	301 264 9314	MT-GLAZE	3.3K FA	1/10W
R685	402 109 8206	RESISTER	0.15 JB	5W
R686	301 258 8217	MT-GLAZE	680 JA	1/3W
R687	302 080 8809	MT-GLAZE	680 KA	1W
R689	301 242 2313	MT-GLAZE	82K JA	1/2W
R690	301 242 2313	MT-GLAZE	82K JA	1/2W
R691	301 242 2313	MT-GLAZE	82K JA	1/2W
R692	301 150 6212	MT-GLAZE	1K JA	1/10W
R693	301 162 2417	MT-GLAZE	1.2K JA	1/10W
TRANSFORMER				
⚠ T651	645 097 6483	TRANS,POWER,PULSE		
COIL				
⚠ L611	945 081 4878	LINE FILTER		
L612	645 089 2561	INDUCTOR,700U		
L613	910 244 3975	CORE		
L614	910 244 3975	CORE		

Key. No.	Part No.	Description
L631	910 078 5954	PIPE CORE
L661	910 244 3975	CORE
L662	910 244 3975	CORE
L663	945 041 1978	INDUCTOR,330 OHM
DIODE		
D611	307 225 4401	DIODE FMX-G26S
D612	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D613	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D631	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D632	307 247 8827	DIODE RF101L2S
D633	307 146 8116	DIODE EG01C
D651	307 247 8827	DIODE RF101L2S
D661	407 261 9504	DIODE YG862C10R
D662	307 202 9801	DIODE FMB-26L
	307 253 7504	DIODE RB085T-60
D663	307 247 8827	DIODE RF101L2S
D664	307 210 5416	DIODE RB551V-30-TE-17
D665	307 219 0808	THYRISTOR TF861S
D666	307 146 8116	DIODE EG01C
DB611	307 143 6006	DIODE RBV-1506
	308 045 4909	DIODE RBV-1506 LF-B
	408 069 8904	DIODE RBV-1506 LF035-40
MISCELLANEOUS		
⚠ F631	324 006 1305	FUSE 250V 2.5A
⚠ PC661	407 265 7813	PC TLP781F(D4-GB-TP7)
⚠ PC663	407 265 7813	PC TLP781F(D4-GB-TP7)
⚠ PC671	407 265 7813	PC TLP781F(D4-GB-TP7)
PTH611	308 037 5600	THERMISTOR NTPDB8R0LDHB0
PTH641	408 068 9803	TH PRF18BD471QB5RB
ZD631	307 206 5413	ZD UDZS-TE-178.2B

A602 610 347 8586 ASSY,PWB,LINE FILTER LM3WB

CAPACITOR				
⚠ C601	404 113 2904	MT-POLYEST	0.33U K	275V
⚠ C602	404 113 2904	MT-POLYEST	0.33U K	275V
⚠ C603	304 104 9502	CERAMIC	1500P K	250V
⚠ C604	304 104 9502	CERAMIC	1500P K	250V
RESISTOR				
⚠ R600	301 242 5314	MT-GLAZE	470K JA	1/2W
⚠ R601	301 242 5314	MT-GLAZE	470K JA	1/2W
VARIABLE RESISTOR				
⚠ VA601	408 066 1700	VD TND14SE471KB0SLAA0		
COIL				
⚠ L601	945 050 2232	LINE FILTER		
MISCELLANEOUS				
⚠ F601	323 025 1204	FUSE	250V	8A
⚠ K601	645 097 0863	UNIT,NOISE FILTER		

A1001 610 347 2072 ASSY,PWB,MAIN.KV7AE

TRANSISTOR		
Q1051	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F

Key. No.	Part No.	Description
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q1061	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q1071	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q1371	305 217 8515	TR RSQ025P03-TR
Q1801	305 191 5814	TR 3LN01C-TB-E
Q1802	305 191 5814	TR 3LN01C-TB-E
Q1803	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q1837	305 002 8327	TR 2SA1203-Y-TE12L
Q1839	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q1861	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q1875	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2001	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q201	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2011	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q202	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2021	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2071	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2076	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2077	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2081	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2091	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q2092	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q2501	305 158 9213	TR IMZ4-T108
Q2502	305 158 9213	TR IMZ4-T108
Q2531	305 158 9213	TR IMZ4-T108
Q2532	305 158 9213	TR IMZ4-T108
Q2561	305 158 9213	TR IMZ4-T108
Q2562	305 158 9213	TR IMZ4-T108
Q3551	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S

Key. No.	Part No.	Description
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3581	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3582	305 002 8327	TR 2SA1203-Y-TE12L
Q3601	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3611	305 047 9010	TR 2SB1204-S-TL-E
Q3613	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3641	305 217 6917	TR TPC6107 TE85L
Q3644	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3692	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q3694	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q3696	305 174 1819	TR CPH3424-TL-E
Q4001	305 166 3210	TR RN1113-TE85L
Q4011	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q4012	305 166 3210	TR RN1113-TE85L
Q4516	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q4547	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q4548	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q4802	305 191 5814	TR 3LN01C-TB-E
Q5031	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5032	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5041	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5042	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5061	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5062	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5063	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5064	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S

Key. No.	Part No.	Description
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5158	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5201	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5202	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5281	305 217 4913	TR RN1111 TE85L
Q5282	305 217 5217	TR RN1110 TE85L
Q5283	305 217 5217	TR RN1110 TE85L
Q5284	305 217 4913	TR RN1111 TE85L
Q5286	305 217 4913	TR RN1111 TE85L
Q5287	305 217 4913	TR RN1111 TE85L
Q5288	305 166 3210	TR RN1113-TE85L
Q5331	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5332	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5333	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5334	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5336	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146
	305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F
	405 220 3115	TR ISA1235AC1E
	405 220 3016	TR ISA1235AC1F
Q5651	305 217 8515	TR RSQ025P03-TR
Q5701	305 217 5019	TR RN1117 TE85L
Q5702	305 217 5019	TR RN1117 TE85L
Q5751	305 217 8515	TR RSQ025P03-TR
Q5752	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q5753	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6201	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6211	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q683	305 217 6917	TR TPC6107 TE85L
Q684	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6841	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6842	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6843	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6844	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0

Key. No.	Part No.	Description
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q6907	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q7801	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q7841	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q7871	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q7891	305 217 5019	TR RN1117 TE85L
Q7892	305 217 5019	TR RN1117 TE85L
Q8702	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q8756	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q890	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
Q9604	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S
INTEGRATED CIRCUIT		
IC1293	309 439 8919	IC TC7WH125FU
IC1302	310 479 4004	IC TC7WBD125AFK
IC1303	310 479 4004	IC TC7WBD125AFK
IC1351	409 699 6516	IC TA48S00AF
IC1361	409 699 6516	IC TA48S00AF
IC1371	309 531 6229	IC FA7701V-TE1
IC1381	309 553 4712	IC PQ070XZ02ZP
IC1391	310 538 4907	IC 24LC64T-I/SNG
IC1392	309 439 8919	IC TC7WH125FU
IC1401	410 628 4906	IC TC7WBL125AFK(T5L,F
IC1402	410 628 4906	IC TC7WBL125AFK(T5L,F
IC1403	309 642 8713	IC TC7SA32FU(TE85L,F)
IC1404	309 330 2511	IC TC7SH04FU-(TE85L)
IC1441	409 699 6516	IC TA48S00AF
IC1451	409 699 6516	IC TA48S00AF
IC1491	409 699 6516	IC TA48S00AF
IC1802	309 671 7817	IC TE7783APF
IC1821	409 699 6516	IC TA48S00AF
IC1875	310 362 6504	IC TC74LCX541FT
IC213	309 487 5727	IC TC7SZ125FU
IC301	309 670 8419	IC PW190-10L
IC302	309 487 5727	IC TC7SZ125FU
IC303	309 487 5727	IC TC7SZ125FU
IC3501	309 431 4424	IC M62334FP-DF5Q
IC3801	309 652 0714	IC HIN202EIBNZ-T
IC401	409 680 7317	IC CXD3540AGB
IC4011	310 358 1506	IC TC74HC4053AFT(EL)
IC4021	309 400 9112	IC TC7SET08FU-(TE85L)
IC4022	309 400 9112	IC TC7SET08FU-(TE85L)
IC4581	409 699 6516	IC TA48S00AF
IC4590	409 698 1017	IC NJU7704F3-42(TE1)
IC4591	409 699 6516	IC TA48S00AF
IC4801	309 464 1411	IC TC74ACT14FT
IC4891	309 404 7213	IC TC7SET00FU-(TE85L)
IC5001	309 564 1519	IC NJW1141M(TE2)
IC5041	310 405 9301	IC TDA7056AT/N2
IC5201	309 530 7217	IC AN5870SB-E1V
IC5302	309 439 8919	IC TC7WH125FU
IC5621	409 699 6516	IC TA48S00AF
IC5641	309 461 7822	IC PQ20WZ11
IC5642	309 531 6229	IC FA7701V-TE1
IC5701	309 461 7822	IC PQ20WZ11
IC5751	309 531 6229	IC FA7701V-TE1
IC6201	309 462 0327	IC 24LC21AT/SN
IC6202	310 517 6809	IC TC74LVX4053FT
IC6211	309 462 0327	IC 24LC21AT/SN
IC6212	310 517 6809	IC TC74LVX4053FT
IC6942	309 334 0137	IC TC7W125FU
IC6961	309 439 8919	IC TC7WH125FU
IC6962	309 439 8919	IC TC7WH125FU
IC7201	410 631 4504	IC EP2C5F256C8N
IC7261	409 699 6516	IC TA48S00AF
IC7271	409 699 6615	IC BD7820FP
IC7281	309 439 8919	IC TC7WH125FU
IC7282	309 439 8919	IC TC7WH125FU
IC7801	309 461 7822	IC PQ20WZ11
IC7821	309 461 7822	IC PQ20WZ11
IC7841	309 461 7822	IC PQ20WZ11
IC7861	309 461 7822	IC PQ20WZ11
IC7871	309 461 7822	IC PQ20WZ11
IC801	410 698 5803	IC S29GL064N90TFI1117--
IC841	310 616 3402	IC PST413A300NR
CAPACITOR		
C1041	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1091	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V
C1300	303 438 0219	CERAMIC 0.1U K 16V
	303 409 3426	CERAMIC 0.1U K 16V

Key. No.	Part No.	Description		
C1301	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1331	303 305 8515	CERAMIC	15P J	50V
C1332	303 305 8515	CERAMIC	15P J	50V
C1351	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1352	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1353	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1361	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1362	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1363	303 382 7814	CERAMIC	2.2U K	10V
C1371	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1372	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1373	303 379 7315	CERAMIC	4700P K	50V
C1376	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1377	303 394 9318	ELECT	220U M	6.3V
	303 413 1811	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C1378	303 394 9318	ELECT	220U M	6.3V
	303 413 1811	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C1379	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1381	303 306 6510	CERAMIC	8200P K	50V
C1382	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1383	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1384	303 394 1312	ELECT	100U M	6.3V
	303 427 9315	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C1391	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1392	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1393	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1401	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1402	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1403	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1404	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1411	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1412	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1413	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1441	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1442	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1445	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1446	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1447	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1452	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1453	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1454	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1463	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1491	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1492	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1493	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1583	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1584	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1585	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1801	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1802	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1804	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1806	303 394 9318	ELECT	220U M	6.3V
	303 413 1811	ELECT	220U M	6.3V
	303 387 5112	ELECT	220U M	6.3V
C1807	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1808	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1809	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C1811	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1812	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1813	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1814	303 276 2819	CERAMIC	18P J	50V
C1816	303 276 2819	CERAMIC	18P J	50V
C1817	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1818	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1819	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1821	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1822	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1823	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1824	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1826	303 449 1212	POS-SOLID	47U M	6.3V
C1827	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1828	303 449 1212	POS-SOLID	47U M	6.3V
C1829	303 438 0219	CERAMIC	0.1U K	16V

Key. No.	Part No.	Description		
	303 409 3426	CERAMIC	0.1U K	16V
C1831	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1832	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1861	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1863	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C1871	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C1875	303 383 5215	CERAMIC	4.7U K	6.3V
C1876	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2002	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2003	303 376 6311	CERAMIC	0.47U K	10V
C2012	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2013	303 376 6311	CERAMIC	0.47U K	10V
C2022	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2023	303 376 6311	CERAMIC	0.47U K	10V
C2071	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2073	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2076	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2077	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2091	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2093	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2501	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C2502	303 367 0410	CERAMIC	0.1U K	50V
C2514	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2516	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C2521	303 367 0410	CERAMIC	0.1U K	50V
C2522	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2523	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2531	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C2532	303 367 0410	CERAMIC	0.1U K	50V
C2561	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C2562	303 367 0410	CERAMIC	0.1U K	50V
C2571	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C2572	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2581	303 367 0410	CERAMIC	0.1U K	50V
C2582	303 376 3112	ELECT	100U M	25V
	303 374 7815	ELECT	100UM	25V
	303 444 0111	ELECT	100U M	25V
C2583	303 367 0410	CERAMIC	0.1U K	50V
C2584	303 376 3112	ELECT	100U M	25V
	303 374 7815	ELECT	100UM	25V
	303 444 0111	ELECT	100U M	25V
C2586	303 367 0410	CERAMIC	0.1U K	50V
C2587	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2588	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2593	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2594	303 367 0410	CERAMIC	0.1U K	50V
C2596	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2597	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C2598	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C267	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2891	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2892	303 305 8812	CERAMIC	47P J	50V
C301	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C302	303 449 1212	POS-SOLID	47U M	6.3V
C303	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C304	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C306	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C307	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C308	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C309	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C311	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C312	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C313	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C314	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C316	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C317	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C318	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C319	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C321	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C322	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C323	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C324	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C326	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C327	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C328	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C329	303 438 0219	CERAMIC	0.1U K	16V

Key. No.	Part No.	Description		
	303 409 3426	CERAMIC	0.1U K	16V
C331	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C332	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C333	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C334	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C335	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C336	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C337	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C338	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C339	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C341	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C342	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C343	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C344	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C346	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C347	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C348	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C349	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C351	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3511	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3512	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3513	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3514	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C352	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C353	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C354	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C355	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3551	303 441 9810	CERAMIC	0.01U K	50V
C3552	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C356	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C357	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C358	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C359	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C361	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C362	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C3621	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3622	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3623	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3624	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3626	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C363	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C364	303 441 9810	CERAMIC	0.01U K	50V
C365	303 442 0519	CERAMIC	0.068U K	16V
C366	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C367	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C368	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C369	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3692	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3694	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3696	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C370	303 441 9810	CERAMIC	0.01U K	50V
C371	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C372	303 441 9810	CERAMIC	0.01U K	50V
C373	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C374	303 442 0519	CERAMIC	0.068U K	16V
C376	303 442 0519	CERAMIC	0.068U K	16V
C377	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C378	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C379	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C3801	303 439 8412	CERAMIC	2.2U M	6.3V
C3802	303 439 8412	CERAMIC	2.2U M	6.3V
C3803	303 439 8412	CERAMIC	2.2U M	6.3V
C3804	303 439 8412	CERAMIC	2.2U M	6.3V
C3806	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C381	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C382	303 442 0519	CERAMIC	0.068U K	16V
C383	303 442 0519	CERAMIC	0.068U K	16V
C384	303 442 0519	CERAMIC	0.068U K	16V
C386	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C387	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C389	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C4001	303 382 7814	CERAMIC	2.2U K	10V
C4002	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

Key. No.	Part No.	Description		
C4003	303 382 7814	CERAMIC	2.2U K	10V
C4004	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4006	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4011	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4012	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4013	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4021	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4022	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C404	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C406	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C407	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C408	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C409	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C411	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C412	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C413	303 394 1312	ELECT	100U M	6.3V
	303 427 9315	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C414	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C416	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C417	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C418	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C419	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C421	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C422	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C423	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C424	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C426	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C427	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C428	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C429	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C431	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C432	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C433	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C434	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C436	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C437	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C438	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C439	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C441	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C442	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C443	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C444	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C446	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C447	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C448	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C449	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C4500	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C4501	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4502	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4503	303 392 1215	ELECT	47U M	6.3V
C4504	303 305 8812	CERAMIC	47P J	50V
C4506	303 166 9515	CERAMIC	0.022U K	16V
C451	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C452	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C453	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C454	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C456	303 394 1312	ELECT	100U M	6.3V
	303 427 9315	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C457	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C458	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C4581	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C4582	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4583	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4587	303 376 6212	CERAMIC	0.22U K	10V
C4588	303 376 3112	ELECT	100U M	25V
	303 374 7815	ELECT	100UM	25V
	303 444 0111	ELECT	100U M	25V
C4589	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C459	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C4591	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V

Key. No.	Part No.	Description		
C4592	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C4593	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C461	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C462	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C463	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C464	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C466	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C467	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C468	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C469	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C471	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C472	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C473	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C474	303 394 1312	ELECT	100U M	6.3V
	303 427 9315	ELECT	100U M	6.3V
	303 387 4917	ELECT	100U M	6.3V
C476	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C477	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C478	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C479	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C4808	303 449 1212	POS-SOLID	47U M	6.3V
C4814	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4891	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5001	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5002	303 441 9810	CERAMIC	0.01U K	50V
C5003	303 441 9810	CERAMIC	0.01U K	50V
C5004	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5006	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5007	303 441 9810	CERAMIC	0.01U K	50V
C5008	303 441 9810	CERAMIC	0.01U K	50V
C5009	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C501	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C5011	303 283 5711	CERAMIC	2200P K	50V
C5012	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5013	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5014	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5016	303 283 5711	CERAMIC	2200P K	50V
C5017	303 438 0219	CERAMIC	0.1U K	16V

Key. No.	Part No.	Description		
	303 409 3426	CERAMIC	0.1U K	16V
C5018	303 401 5715	CERAMIC	0.33U K	16V
C5019	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C502	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5021	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5022	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5023	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5024	303 379 6714	CERAMIC	10U K	16V
C503	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5038	303 441 9810	CERAMIC	0.01U K	50V
C504	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5041	303 397 8219	CERAMIC	2.2U K	25V
C5042	303 398 3817	ELECT	220U M	16V
	403 457 1416	ELECT	220U M	16V
C5043	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C505	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C506	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5061	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C5069	303 397 6611	ELECT	10U M	25V
	303 387 6812	ELECT	10U M	25V
C507	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C508	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C509	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C511	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C512	303 282 5118	CERAMIC	470P K	50V
C513	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C514	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C516	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C517	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C518	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5201	303 439 8412	CERAMIC	2.2U M	6.3V
C5202	303 439 8412	CERAMIC	2.2U M	6.3V
C5203	303 439 8412	CERAMIC	2.2U M	6.3V
C5204	303 439 8412	CERAMIC	2.2U M	6.3V
C5206	303 439 8412	CERAMIC	2.2U M	6.3V
C5207	303 439 8412	CERAMIC	2.2U M	6.3V
C5208	303 351 0617	POS-SOLID	100U M	10V
C5209	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5211	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5212	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5213	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

Key. No.	Part No.	Description		
C5214	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5216	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5217	303 367 0410	CERAMIC	0.1U K	50V
C5218	303 391 5115	ELECT	100U M	16V
	303 427 8417	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C5219	303 367 0410	CERAMIC	0.1U K	50V
C5221	303 441 9810	CERAMIC	0.01U K	50V
C5222	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5223	303 381 9918	ELECT	470U M	16V
	303 407 3517	ELECT	470U M	16V
	403 458 5017	ELECT	470U M	16V
C5224	303 441 9810	CERAMIC	0.01U K	50V
C5226	303 381 9918	ELECT	470U M	16V
	303 407 3517	ELECT	470U M	16V
	403 458 5017	ELECT	470U M	16V
C5227	303 441 9810	CERAMIC	0.01U K	50V
C5229	303 381 9918	ELECT	470U M	16V
	303 407 3517	ELECT	470U M	16V
	403 458 5017	ELECT	470U M	16V
C5231	303 441 9810	CERAMIC	0.01U K	50V
C5244	303 382 7814	CERAMIC	2.2U K	10V
C531	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C532	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C533	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5332	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5333	303 376 6311	CERAMIC	0.47U K	10V
C5334	303 320 0419	CERAMIC	68P J	50V
C5336	303 309 2519	CERAMIC	27P J	50V
C5337	303 294 6110	CERAMIC	100P J	50V
C5338	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C534	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5341	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C535	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C536	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C537	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C538	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C539	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C541	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C542	303 282 5118	CERAMIC	470P K	50V
C543	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C544	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C546	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C547	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C548	403 455 1012	CERAMIC	1U K	10V

Key. No.	Part No.	Description		
	303 433 1112	CERAMIC	1U K	10V
C5601	303 397 5713	ELECT	100U M	10V
	303 387 5617	ELECT	100U M	10V
C5602	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5608	303 397 5713	ELECT	100U M	10V
	303 387 5617	ELECT	100U M	10V
C561	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C5611	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5612	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5613	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5616	303 417 9912	CERAMIC	4.7U K	25V
C5617	303 417 9912	CERAMIC	4.7U K	25V
C5618	303 417 9912	CERAMIC	4.7U K	25V
C5619	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C562	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5620	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5621	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5622	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C5623	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5624	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C563	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C564	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5640	303 342 3313	CERAMIC	0.1U K	25V
C5641	303 367 0410	CERAMIC	0.1U K	50V
C5642	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5643	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5644	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5646	303 379 7315	CERAMIC	4700P K	50V
C5649	303 391 5115	ELECT	100U M	16V
	303 427 8417	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C565	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5651	303 391 5115	ELECT	100U M	16V
	303 427 8417	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C5652	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C566	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C567	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C568	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C569	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5701	303 367 0410	CERAMIC	0.1U K	50V
C5702	303 398 5415	ELECT	47U M	25V

Key. No.	Part No.	Description		
	303 387 7314	ELECT	47U M	25V
C5703	303 342 3313	CERAMIC	0.1U K	25V
C571	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C572	303 282 5118	CERAMIC	470P K	50V
C573	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C574	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C5752	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5753	303 379 7315	CERAMIC	4700P K	50V
C5754	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5755	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5756	303 398 2117	ELECT	330U M	6.3V
C5757	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5759	303 403 1319	ELECT	22U M	25V
C576	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C5761	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C5762	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C5763	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C577	303 396 9613	CERAMIC	1U K	25V
	303 397 7618	CERAMIC	1U K	25V
C578	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C5799	303 306 6510	CERAMIC	8200P K	50V
C6201	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6202	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6203	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C6211	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6212	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6213	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C6942	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6961	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6962	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7201	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7202	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7203	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7204	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7206	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7207	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7208	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7209	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7211	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7212	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7213	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7214	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7216	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7217	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7218	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7219	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7221	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7222	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7223	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7224	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7226	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7227	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7228	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7229	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7261	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C7262	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C7263	303 382 7814	CERAMIC	2.2U K	10V
C7264	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C7266	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7267	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7268	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7270	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7271	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C7272	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C7273	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7274	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7281	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7282	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7801	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C7802	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V

Key. No.	Part No.	Description		
C7803	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7804	303 391 5115	ELECT	100U M	16V
	303 427 8417	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C7805	303 420 4812	CERAMIC	10U K	10V
C7806	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7821	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C7822	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7823	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7824	303 391 5115	ELECT	100U M	16V
	303 427 8417	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C7825	303 420 4812	CERAMIC	10U K	10V
C7841	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C7842	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7843	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7844	303 391 5115	ELECT	100U M	16V
	303 427 8417	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C7845	303 394 5815	CERAMIC	4.7U K	16V
C7846	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7861	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C7862	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7863	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7864	303 391 5115	ELECT	100U M	16V
	303 427 8417	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C7865	303 394 5815	CERAMIC	4.7U K	16V
C7871	303 398 5415	ELECT	47U M	25V
	303 387 7314	ELECT	47U M	25V
C7872	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7873	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7874	303 391 5115	ELECT	100U M	16V
	303 427 8417	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V
C7875	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C7876	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C801	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C841	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C842	303 392 1215	ELECT	47U M	6.3V
	303 387 5310	ELECT	47U M	6.3V
C843	303 441 9810	CERAMIC	0.01U K	50V
C844	303 276 1317	CERAMIC	1000P K	50V
C8811	303 276 3113	CERAMIC	33P J	50V
C8812	303 276 3113	CERAMIC	33P J	50V
C8813	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8821	303 276 3113	CERAMIC	33P J	50V
C8822	303 276 3113	CERAMIC	33P J	50V
C8823	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C8842	303 276 3113	CERAMIC	33P J	50V
C8843	303 276 3113	CERAMIC	33P J	50V
C891	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
RESISTOR				
R1001	301 258 2611	MT-GLAZE	150 FA	1/10W
R1002	301 224 8814	MT-GLAZE	100 JA	1/16W
R1011	301 258 2611	MT-GLAZE	150 FA	1/10W
R1012	301 224 8814	MT-GLAZE	100 JA	1/16W
R1013	301 258 2611	MT-GLAZE	150 FA	1/10W
R1014	301 258 2611	MT-GLAZE	150 FA	1/10W
R1016	301 258 2611	MT-GLAZE	150 FA	1/10W
R1021	301 258 2611	MT-GLAZE	150 FA	1/10W
R1022	301 224 8814	MT-GLAZE	100 JA	1/16W
R1031	301 225 1418	MT-GLAZE	47K JA	1/16W
R1034	301 224 9316	MT-GLAZE	1K JA	1/16W
R1038	301 224 8814	MT-GLAZE	100 JA	1/16W
R1041	301 225 1418	MT-GLAZE	47K JA	1/16W
R1048	301 224 8814	MT-GLAZE	100 JA	1/16W
R1051	301 258 2611	MT-GLAZE	150 FA	1/10W
R1052	301 263 7420	MT-GLAZE	75 JA	1/16W
R1053	301 302 5414	MT-GLAZE	220 FA	1/16W
R1054	301 224 9316	MT-GLAZE	1K JA	1/16W
R1056	301 258 2611	MT-GLAZE	150 FA	1/10W
R1061	301 258 2611	MT-GLAZE	150 FA	1/10W
R1062	301 263 7420	MT-GLAZE	75 JA	1/16W
R1063	301 302 5414	MT-GLAZE	220 FA	1/16W
R1064	301 224 9316	MT-GLAZE	1K JA	1/16W
R1066	301 258 2611	MT-GLAZE	150 FA	1/10W
R1071	301 258 2611	MT-GLAZE	150 FA	1/10W
R1072	301 263 7420	MT-GLAZE	75 JA	1/16W
R1073	301 302 5414	MT-GLAZE	220 FA	1/16W
R1074	301 224 9316	MT-GLAZE	1K JA	1/16W
R1076	301 258 2611	MT-GLAZE	150 FA	1/10W
R1081	301 225 1418	MT-GLAZE	47K JA	1/16W
R1082	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1084	301 224 9316	MT-GLAZE	1K JA	1/16W
R1091	301 225 1418	MT-GLAZE	47K JA	1/16W
R1092	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1101	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1102	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1111	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1112	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1307	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1308	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1309	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1311	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1331	301 224 9415	MT-GLAZE	1M JA	1/16W
R1351	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1352	301 224 9019	MT-GLAZE	10K JA	1/16W
R1353	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R1354	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R1356	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R1357	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1361	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1362	301 224 9217	MT-GLAZE	15K JA	1/16W
R1363	301 301 8010	MT-GLAZE	1.5K FA	1/16W
R1364	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R1366	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R1371	301 259 2313	MT-GLAZE	200K JA	1/16W
R1372	301 299 5312	MT-GLAZE	12K FA	1/16W

Key. No.	Part No.	Description		
R1373	301 224 9019	MT-GLAZE	10K JA	1/16W
R1374	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1376	301 261 1113	MT-GLAZE	24K JA	1/16W
R1377	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1378	301 302 3410	MT-GLAZE	13K JA	1/16W
R1379	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R1381	301 224 9019	MT-GLAZE	10K JA	1/16W
R1382	301 299 4919	MT-GLAZE	470 FA	1/16W
R1383	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1384	301 294 3115	MT-GLAZE	1K FA	1/16W
R1388	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1389	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1391	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1392	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1407	301 224 9019	MT-GLAZE	10K JA	1/16W
R1408	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1409	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1411	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1412	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1413	301 224 9019	MT-GLAZE	10K JA	1/16W
R1414	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1418	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1419	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1421	301 224 9712	MT-GLAZE	22 JA	1/16W
R1423	301 224 9712	MT-GLAZE	22 JA	1/16W
R1427	301 224 9712	MT-GLAZE	22 JA	1/16W
R1428	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1431	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1432	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1433	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1437	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1438	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1441	301 301 3718	MT-GLAZE	2K FA	1/16W
R1442	301 272 7814	MT-GLAZE	100 FA	1/16W
R1443	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R1444	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1451	301 224 9019	MT-GLAZE	10K JA	1/16W
R1453	301 224 9316	MT-GLAZE	1K JA	1/16W
R1454	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1455	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1456	301 301 8010	MT-GLAZE	1.5K FA	1/16W
R1457	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R1458	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R1491	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R1492	301 224 9019	MT-GLAZE	10K JA	1/16W
R1493	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R1494	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R1496	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R1581	301 224 9712	MT-GLAZE	22 JA	1/16W
R1582	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1584	301 225 1814	MT-GLAZE	47 JA	1/16W
R1585	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1587	301 224 9712	MT-GLAZE	22 JA	1/16W
R1588	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1801	301 224 8814	MT-GLAZE	100 JA	1/16W
R1804	301 224 8814	MT-GLAZE	100 JA	1/16W
R1808	301 259 7823	MT-GLAZE	20K JA	1/16W
R1809	301 224 9019	MT-GLAZE	10K JA	1/16W
R1811	301 224 9019	MT-GLAZE	10K JA	1/16W
R1812	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1813	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1814	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1816	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1817	301 237 2915	MT-GLAZE	51 JA	1/16W
R1818	301 224 9415	MT-GLAZE	1M JA	1/16W

Key. No.	Part No.	Description		
R1819	301 224 9019	MT-GLAZE	10K JA	1/16W
R1821	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1823	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1824	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1826	301 224 9019	MT-GLAZE	10K JA	1/16W
R1827	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1829	301 224 9019	MT-GLAZE	10K JA	1/16W
R1831	301 224 9019	MT-GLAZE	10K JA	1/16W
R1832	301 224 9019	MT-GLAZE	10K JA	1/16W
R1833	301 224 9019	MT-GLAZE	10K JA	1/16W
R1834	301 224 9019	MT-GLAZE	10K JA	1/16W
R1837	301 224 9019	MT-GLAZE	10K JA	1/16W
R1839	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R1844	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1846	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1847	301 224 9019	MT-GLAZE	10K JA	1/16W
R1848	301 224 9019	MT-GLAZE	10K JA	1/16W
R1849	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R1851	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R1852	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1853	301 224 9316	MT-GLAZE	1K JA	1/16W
R1854	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1856	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R1857	301 272 7814	MT-GLAZE	100 FA	1/16W
R1858	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R1859	301 224 9019	MT-GLAZE	10K JA	1/16W
R1861	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R1864	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R1866	301 225 8110	MT-GLAZE	10 JA	1/16W
R1867	301 225 0718	MT-GLAZE	56K JA	1/16W
R1871	301 224 8913	MT-GLAZE	100K JA	1/16W
R1875	301 225 0718	MT-GLAZE	56K JA	1/16W
R1876	301 224 9019	MT-GLAZE	10K JA	1/16W
R1877	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2000	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
R2002	301 225 1418	MT-GLAZE	47K JA	1/16W
R2003	301 225 0718	MT-GLAZE	56K JA	1/16W
R2004	301 225 1319	MT-GLAZE	470 JA	1/16W
R2006	301 224 9316	MT-GLAZE	1K JA	1/16W
R2007	301 224 8814	MT-GLAZE	100 JA	1/16W
R2008	301 225 0015	MT-GLAZE	270 JA	1/16W
R201	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R2012	301 225 1418	MT-GLAZE	47K JA	1/16W
R2013	301 225 0718	MT-GLAZE	56K JA	1/16W
R2014	301 225 1319	MT-GLAZE	470 JA	1/16W
R2016	301 224 9316	MT-GLAZE	1K JA	1/16W
R2017	301 224 8814	MT-GLAZE	100 JA	1/16W
R2022	301 225 1418	MT-GLAZE	47K JA	1/16W
R2023	301 225 0718	MT-GLAZE	56K JA	1/16W
R2024	301 225 1319	MT-GLAZE	470 JA	1/16W
R2026	301 224 9316	MT-GLAZE	1K JA	1/16W
R2027	301 224 8814	MT-GLAZE	100 JA	1/16W
R2028	301 225 0015	MT-GLAZE	270 JA	1/16W
R203	301 225 0619	MT-GLAZE	5.6K JA	1/16W
R2032	301 224 9019	MT-GLAZE	10K JA	1/16W
R2033	301 224 9217	MT-GLAZE	15K JA	1/16W
R2039	301 225 8110	MT-GLAZE	10 JA	1/16W
R2041	301 225 8110	MT-GLAZE	10 JA	1/16W
R2042	301 225 8110	MT-GLAZE	10 JA	1/16W
R2043	301 225 8110	MT-GLAZE	10 JA	1/16W
R2044	301 225 8110	MT-GLAZE	10 JA	1/16W
R207	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R2071	301 224 8913	MT-GLAZE	100K JA	1/16W
R2072	301 224 8913	MT-GLAZE	100K JA	1/16W
R2073	301 224 9415	MT-GLAZE	1M JA	1/16W

Key. No.	Part No.	Description		
R2074	301 224 9910	MT-GLAZE	22K JA	1/16W
R2075	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R2076	301 258 2611	MT-GLAZE	150 FA	1/10W
R2077	301 225 1814	MT-GLAZE	47 JA	1/16W
R2078	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R2079	301 263 7420	MT-GLAZE	75 JA	1/16W
R2081	301 258 2611	MT-GLAZE	150 FA	1/10W
R2082	301 225 1814	MT-GLAZE	47 JA	1/16W
R2083	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R2084	301 263 7420	MT-GLAZE	75 JA	1/16W
R2087	301 258 2611	MT-GLAZE	150 FA	1/10W
R2088	301 258 2611	MT-GLAZE	150 FA	1/10W
R2089	301 258 2611	MT-GLAZE	150 FA	1/10W
R2091	301 258 2611	MT-GLAZE	150 FA	1/10W
R2092	301 225 1814	MT-GLAZE	47 JA	1/16W
R2093	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R2094	301 263 7420	MT-GLAZE	75 JA	1/16W
R2097	301 224 9316	MT-GLAZE	1K JA	1/16W
R2098	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R211	301 225 0619	MT-GLAZE	5.6K JA	1/16W
R2501	301 225 8110	MT-GLAZE	10 JA	1/16W
R2502	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2503	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2504	301 259 2115	MT-GLAZE	1 JA	1/16W
R2506	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2507	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2508	301 259 2115	MT-GLAZE	1 JA	1/16W
R2509	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2512	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2513	301 224 8913	MT-GLAZE	100K JA	1/16W
R2514	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2516	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R253	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2531	301 225 8110	MT-GLAZE	10 JA	1/16W
R2532	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2533	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2534	301 259 2115	MT-GLAZE	1 JA	1/16W
R2536	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2537	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2538	301 259 2115	MT-GLAZE	1 JA	1/16W
R2539	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R254	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2552	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2553	301 224 8913	MT-GLAZE	100K JA	1/16W
R2554	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2556	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2561	301 225 8110	MT-GLAZE	10 JA	1/16W
R2562	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2563	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2564	301 259 2115	MT-GLAZE	1 JA	1/16W
R2566	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2567	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R2568	301 259 2115	MT-GLAZE	1 JA	1/16W
R2569	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2572	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2573	301 224 8913	MT-GLAZE	100K JA	1/16W
R2574	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R2576	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R262	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R264	301 225 0312	MT-GLAZE	33 JA	1/16W
R266	301 225 0312	MT-GLAZE	33 JA	1/16W
R267	301 225 0312	MT-GLAZE	33 JA	1/16W
R268	301 224 9019	MT-GLAZE	10K JA	1/16W
R269	301 224 8814	MT-GLAZE	100 JA	1/16W
R272	301 225 0312	MT-GLAZE	33 JA	1/16W
R2890	301 224 9712	MT-GLAZE	22 JA	1/16W
R2891	301 224 9712	MT-GLAZE	22 JA	1/16W
R2892	301 224 8814	MT-GLAZE	100 JA	1/16W
R300	301 224 9019	MT-GLAZE	10K JA	1/16W
R302	301 298 5511	MT-GLAZE	8.2K FA	1/16W
R303	301 224 9316	MT-GLAZE	1K JA	1/16W
R304	301 224 9316	MT-GLAZE	1K JA	1/16W
R306	301 339 9614	MT-GLAZE	23.2K FA	1/10W
R307	301 224 9712	MT-GLAZE	22 JA	1/16W
R308	301 224 9712	MT-GLAZE	22 JA	1/16W
R309	301 224 9316	MT-GLAZE	1K JA	1/16W
R311	301 224 9316	MT-GLAZE	1K JA	1/16W
R312	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R313	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R314	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R316	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R318	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R319	301 224 9019	MT-GLAZE	10K JA	1/16W
R321	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R322	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R324	301 225 0817	MT-GLAZE	68K JA	1/16W
R325	301 224 9019	MT-GLAZE	10K JA	1/16W
R327	301 224 9019	MT-GLAZE	10K JA	1/16W
R331	301 224 9712	MT-GLAZE	22 JA	1/16W
R332	301 224 9712	MT-GLAZE	22 JA	1/16W
R334	301 224 9712	MT-GLAZE	22 JA	1/16W
R336	301 224 9712	MT-GLAZE	22 JA	1/16W
R337	301 224 9712	MT-GLAZE	22 JA	1/16W
R338	301 224 9712	MT-GLAZE	22 JA	1/16W
R339	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R340	301 224 8814	MT-GLAZE	100 JA	1/16W
R341	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R342	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R343	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R344	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R347	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R348	301 225 8110	MT-GLAZE	10 JA	1/16W
R349	301 224 9712	MT-GLAZE	22 JA	1/16W
R351	301 225 8110	MT-GLAZE	10 JA	1/16W
R3511	301 224 8814	MT-GLAZE	100 JA	1/16W
R3512	301 224 8814	MT-GLAZE	100 JA	1/16W
R3513	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3514	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3515	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R352	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R353	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R355	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3551	301 224 9019	MT-GLAZE	10K JA	1/16W
R3552	301 224 9910	MT-GLAZE	22K JA	1/16W
R3553	301 224 9910	MT-GLAZE	22K JA	1/16W
R3554	301 224 9019	MT-GLAZE	10K JA	1/16W
R3557	301 225 8110	MT-GLAZE	10 JA	1/16W
R356	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R357	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R3581	301 224 9316	MT-GLAZE	1K JA	1/16W
R3582	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3583	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R3584	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R359	301 225 8110	MT-GLAZE	10 JA	1/16W
R3601	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R3602	301 225 0619	MT-GLAZE	5.6K JA	1/16W
R3603	301 225 0619	MT-GLAZE	5.6K JA	1/16W
R361	301 302 3410	MT-GLAZE	13K JA	1/16W
R3611	301 224 9019	MT-GLAZE	10K JA	1/16W
R3614	301 224 9019	MT-GLAZE	10K JA	1/16W

Key. No.	Part No.	Description		
R3615	301 230 8013	MT-GLAZE	1K JA	1/3W
R3616	301 224 8913	MT-GLAZE	100K JA	1/16W
R362	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R3621	301 224 9019	MT-GLAZE	10K JA	1/16W
R3622	301 224 9019	MT-GLAZE	10K JA	1/16W
R3623	301 224 9019	MT-GLAZE	10K JA	1/16W
R3624	301 224 9019	MT-GLAZE	10K JA	1/16W
R3626	301 224 9019	MT-GLAZE	10K JA	1/16W
R363	301 224 9316	MT-GLAZE	1K JA	1/16W
R364	301 224 9316	MT-GLAZE	1K JA	1/16W
R3641	301 224 9019	MT-GLAZE	10K JA	1/16W
R3644	301 224 9019	MT-GLAZE	10K JA	1/16W
R3646	301 224 8913	MT-GLAZE	100K JA	1/16W
R366	301 224 9316	MT-GLAZE	1K JA	1/16W
R367	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R368	301 263 7420	MT-GLAZE	75 JA	1/16W
R369	301 263 7420	MT-GLAZE	75 JA	1/16W
R3690	301 224 9316	MT-GLAZE	1K JA	1/16W
R3691	301 224 9019	MT-GLAZE	10K JA	1/16W
R3694	301 224 8913	MT-GLAZE	100K JA	1/16W
R3696	301 224 9019	MT-GLAZE	10K JA	1/16W
R3697	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R3698	301 224 9019	MT-GLAZE	10K JA	1/16W
R371	301 224 8913	MT-GLAZE	100K JA	1/16W
R372	301 225 8110	MT-GLAZE	10 JA	1/16W
R373	301 225 8110	MT-GLAZE	10 JA	1/16W
R378	301 224 9019	MT-GLAZE	10K JA	1/16W
R3801	301 225 8110	MT-GLAZE	10 JA	1/16W
R3802	301 225 8110	MT-GLAZE	10 JA	1/16W
R3803	301 225 8110	MT-GLAZE	10 JA	1/16W
R3804	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R382	301 263 7420	MT-GLAZE	75 JA	1/16W
R383	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R384	301 224 9019	MT-GLAZE	10K JA	1/16W
R389	301 225 0817	MT-GLAZE	68K JA	1/16W
R391	301 224 9019	MT-GLAZE	10K JA	1/16W
R392	301 225 8011	MT-GLAZE	330 JA	1/16W
R393	301 224 9019	MT-GLAZE	10K JA	1/16W
R394	301 225 2019	MT-GLAZE	680 JA	1/16W
R398	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4001	301 224 9019	MT-GLAZE	10K JA	1/16W
R4011	301 224 9316	MT-GLAZE	1K JA	1/16W
R4012	301 224 9316	MT-GLAZE	1K JA	1/16W
R4013	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R4014	301 224 9019	MT-GLAZE	10K JA	1/16W
R4016	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R4017	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R4018	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4021	301 224 8814	MT-GLAZE	100 JA	1/16W
R406	301 224 9712	MT-GLAZE	22 JA	1/16W
R407	301 224 9712	MT-GLAZE	22 JA	1/16W
R408	301 224 9712	MT-GLAZE	22 JA	1/16W
R411	301 224 9712	MT-GLAZE	22 JA	1/16W
R412	301 224 9712	MT-GLAZE	22 JA	1/16W
R413	301 224 9712	MT-GLAZE	22 JA	1/16W
R414	301 224 9712	MT-GLAZE	22 JA	1/16W
R415	301 224 9712	MT-GLAZE	22 JA	1/16W
R416	301 224 9712	MT-GLAZE	22 JA	1/16W
R417	301 224 9712	MT-GLAZE	22 JA	1/16W
R418	301 224 9712	MT-GLAZE	22 JA	1/16W
R419	301 224 9712	MT-GLAZE	22 JA	1/16W
R420	301 224 9712	MT-GLAZE	22 JA	1/16W
R421	301 224 9712	MT-GLAZE	22 JA	1/16W
R422	301 224 9712	MT-GLAZE	22 JA	1/16W
R423	301 224 9712	MT-GLAZE	22 JA	1/16W

Key. No.	Part No.	Description		
R424	301 224 9712	MT-GLAZE	22 JA	1/16W
R425	301 224 9712	MT-GLAZE	22 JA	1/16W
R426	301 224 9712	MT-GLAZE	22 JA	1/16W
R427	301 224 9712	MT-GLAZE	22 JA	1/16W
R428	301 224 9712	MT-GLAZE	22 JA	1/16W
R431	301 224 9712	MT-GLAZE	22 JA	1/16W
R432	301 224 9712	MT-GLAZE	22 JA	1/16W
R433	301 224 9712	MT-GLAZE	22 JA	1/16W
R434	301 224 9712	MT-GLAZE	22 JA	1/16W
R435	301 224 9712	MT-GLAZE	22 JA	1/16W
R436	301 224 9712	MT-GLAZE	22 JA	1/16W
R437	301 224 9712	MT-GLAZE	22 JA	1/16W
R438	301 224 9712	MT-GLAZE	22 JA	1/16W
R439	301 224 9712	MT-GLAZE	22 JA	1/16W
R441	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R442	301 224 9712	MT-GLAZE	22 JA	1/16W
R444	301 224 9712	MT-GLAZE	22 JA	1/16W
R445	301 224 9712	MT-GLAZE	22 JA	1/16W
R446	301 224 9712	MT-GLAZE	22 JA	1/16W
R447	301 224 9712	MT-GLAZE	22 JA	1/16W
R448	301 224 9019	MT-GLAZE	10K JA	1/16W
R449	301 224 9019	MT-GLAZE	10K JA	1/16W
R4500	301 224 9316	MT-GLAZE	1K JA	1/16W
R4501	301 224 8913	MT-GLAZE	100K JA	1/16W
R4502	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R4507	301 225 8110	MT-GLAZE	10 JA	1/16W
R4508	301 225 8110	MT-GLAZE	10 JA	1/16W
R4509	301 225 8110	MT-GLAZE	10 JA	1/16W
R451	301 224 9019	MT-GLAZE	10K JA	1/16W
R4511	301 225 8110	MT-GLAZE	10 JA	1/16W
R4512	301 224 9019	MT-GLAZE	10K JA	1/16W
R4513	301 224 9019	MT-GLAZE	10K JA	1/16W
R4514	301 224 9019	MT-GLAZE	10K JA	1/16W
R4516	301 255 7312	MT-GLAZE	510K JA	1/10W
R4517	301 224 9019	MT-GLAZE	10K JA	1/16W
R4518	301 224 9019	MT-GLAZE	10K JA	1/16W
R4519	301 224 8913	MT-GLAZE	100K JA	1/16W
R4522	301 224 9712	MT-GLAZE	22 JA	1/16W
R4523	301 224 9712	MT-GLAZE	22 JA	1/16W
R4524	301 224 9712	MT-GLAZE	22 JA	1/16W
R4526	301 224 9712	MT-GLAZE	22 JA	1/16W
R4528	301 224 9019	MT-GLAZE	10K JA	1/16W
R4529	301 224 9019	MT-GLAZE	10K JA	1/16W
R4531	301 224 9019	MT-GLAZE	10K JA	1/16W
R4533	301 224 8814	MT-GLAZE	100 JA	1/16W
R4534	301 224 8814	MT-GLAZE	100 JA	1/16W
R4537	301 224 8814	MT-GLAZE	100 JA	1/16W
R4539	301 224 9019	MT-GLAZE	10K JA	1/16W
R4545	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R4546	301 299 2410	MT-GLAZE	5.6K FA	1/16W
R4547	301 224 9316	MT-GLAZE	1K JA	1/16W
R4548	301 224 9019	MT-GLAZE	10K JA	1/16W
R4549	301 224 9019	MT-GLAZE	10K JA	1/16W
R4550	301 224 9019	MT-GLAZE	10K JA	1/16W
R4553	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4578	301 224 9316	MT-GLAZE	1K JA	1/16W
R4579	301 224 9019	MT-GLAZE	10K JA	1/16W
R4580	301 224 9019	MT-GLAZE	10K JA	1/16W
R4581	401 343 0512	MT-GLAZE	7.5K FA	1/16W
R4582	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R4583	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R4589	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R4590	301 225 0718	MT-GLAZE	56K JA	1/16W
R4592	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R4594	301 301 8119	MT-GLAZE	3.9K FA	1/16W

Key. No.	Part No.	Description		
R4597	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R4599	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R461	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R462	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R463	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R466	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R472	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4803	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R481	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R482	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R483	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4834	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R486	301 225 0312	MT-GLAZE	33 JA	1/16W
R4861	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4862	301 224 8814	MT-GLAZE	100 JA	1/16W
R4863	301 224 8814	MT-GLAZE	100 JA	1/16W
R4864	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R4867	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R4868	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R487	301 225 0312	MT-GLAZE	33 JA	1/16W
R488	301 225 0312	MT-GLAZE	33 JA	1/16W
R489	301 225 0312	MT-GLAZE	33 JA	1/16W
R491	301 225 0312	MT-GLAZE	33 JA	1/16W
R492	301 225 0312	MT-GLAZE	33 JA	1/16W
R5001	301 276 4314	MT-GLAZE	4.7 JA	1/3W
R5002	301 225 8110	MT-GLAZE	10 JA	1/16W
R5003	301 225 8110	MT-GLAZE	10 JA	1/16W
R502	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R503	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5031	301 225 1319	MT-GLAZE	470 JA	1/16W
R5032	301 225 1319	MT-GLAZE	470 JA	1/16W
R5033	301 338 8113	MT-GLAZE	1.2K FA	1/16W
R5034	301 224 9316	MT-GLAZE	1K JA	1/16W
R5036	301 338 8113	MT-GLAZE	1.2K FA	1/16W
R5037	301 224 9316	MT-GLAZE	1K JA	1/16W
R5038	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R504	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5043	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5044	301 225 8615	MT-GLAZE	560K JA	1/16W
R5046	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R5047	301 225 0510	MT-GLAZE	33K JA	1/16W
R5048	301 259 7922	MT-GLAZE	5.1K JA	1/16W
R5049	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R505	301 224 9316	MT-GLAZE	1K JA	1/16W
R5051	301 224 9019	MT-GLAZE	10K JA	1/16W
R5052	301 224 9613	MT-GLAZE	2.7K JA	1/16W
R5053	301 224 9019	MT-GLAZE	10K JA	1/16W
R5054	301 225 5614	MT-GLAZE	2.2 JA	1W
R506	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5061	301 224 9316	MT-GLAZE	1K JA	1/16W
R5062	301 338 8113	MT-GLAZE	1.2K FA	1/16W
R5063	301 224 9316	MT-GLAZE	1K JA	1/16W
R5064	301 224 9316	MT-GLAZE	1K JA	1/16W
R5066	301 338 8113	MT-GLAZE	1.2K FA	1/16W
R5067	301 224 9316	MT-GLAZE	1K JA	1/16W
R5068	301 338 8113	MT-GLAZE	1.2K FA	1/16W
R5071	301 338 8113	MT-GLAZE	1.2K FA	1/16W
R510	301 225 8110	MT-GLAZE	10 JA	1/16W
R511	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R512	301 224 9019	MT-GLAZE	10K JA	1/16W
R5120	301 264 1912	MT-GLAZE	10K FA	1/10W
R5125	301 264 1912	MT-GLAZE	10K FA	1/10W
R513	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R514	301 225 1814	MT-GLAZE	47 JA	1/16W
R5160	301 265 1614	MT-GLAZE	470 FA	1/10W
R5165	301 265 1614	MT-GLAZE	470 FA	1/10W
R5201	301 225 8110	MT-GLAZE	10 JA	1/16W
R5202	301 225 8110	MT-GLAZE	10 JA	1/16W
R5203	301 225 8110	MT-GLAZE	10 JA	1/16W
R5204	301 225 8110	MT-GLAZE	10 JA	1/16W
R5206	301 225 8110	MT-GLAZE	10 JA	1/16W
R5207	301 225 8110	MT-GLAZE	10 JA	1/16W
R5208	301 224 8814	MT-GLAZE	100 JA	1/16W
R5209	301 224 8814	MT-GLAZE	100 JA	1/16W
R5211	301 224 8814	MT-GLAZE	100 JA	1/16W
R5212	301 224 8814	MT-GLAZE	100 JA	1/16W
R5213	301 225 1814	MT-GLAZE	47 JA	1/16W
R5215	301 225 3818	MT-GLAZE	1.5K JA	1/16W
R5221	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5222	301 036 9610	MT-GLAZE	56 JA	1/8W
R5226	301 224 9316	MT-GLAZE	1K JA	1/16W
R5227	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5228	301 036 9610	MT-GLAZE	56 JA	1/8W
R5233	301 224 9316	MT-GLAZE	1K JA	1/16W
R5234	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5237	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5238	301 036 9610	MT-GLAZE	56 JA	1/8W
R5241	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5281	301 224 9316	MT-GLAZE	1K JA	1/16W
R5282	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R5289	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R5309	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5311	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R532	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R533	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5331	301 240 9710	MT-GLAZE	820K JA	1/16W
R5332	301 224 9316	MT-GLAZE	1K JA	1/16W
R5333	301 224 9316	MT-GLAZE	1K JA	1/16W
R5334	301 224 9019	MT-GLAZE	10K JA	1/16W
R5336	301 224 9316	MT-GLAZE	1K JA	1/16W
R5337	301 224 9316	MT-GLAZE	1K JA	1/16W
R5338	301 294 2910	MT-GLAZE	560 FA	1/16W
R534	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5342	301 225 0718	MT-GLAZE	56K JA	1/16W
R5343	301 224 9316	MT-GLAZE	1K JA	1/16W
R535	301 224 9316	MT-GLAZE	1K JA	1/16W
R538	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R540	301 225 8110	MT-GLAZE	10 JA	1/16W
R541	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R542	301 224 9019	MT-GLAZE	10K JA	1/16W
R543	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R544	301 225 8110	MT-GLAZE	10 JA	1/16W
R5601	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R5602	301 294 4419	MT-GLAZE	1.8K FA	1/16W
R5603	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R5604	301 301 3718	MT-GLAZE	2K FA	1/16W
R5608	301 036 1218	MT-GLAZE	22 JA	1/8W
R5611	301 225 8110	MT-GLAZE	10 JA	1/16W
R5612	301 225 8110	MT-GLAZE	10 JA	1/16W
R562	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5620	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R5621	301 224 9019	MT-GLAZE	10K JA	1/16W
R5622	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R5623	401 343 0512	MT-GLAZE	7.5K FA	1/16W
R5624	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R563	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R564	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5641	301 224 9415	MT-GLAZE	1M JA	1/16W
R5642	301 225 0114	MT-GLAZE	27K JA	1/16W
R5643	301 224 8913	MT-GLAZE	100K JA	1/16W

Key. No.	Part No.	Description		
R5644	301 237 2915	MT-GLAZE	51 JA	1/16W
R5647	301 224 9019	MT-GLAZE	10K JA	1/16W
R5649	301 286 4717	MT-GLAZE	30K JA	1/16W
R565	301 224 9316	MT-GLAZE	1K JA	1/16W
R5651	301 225 0510	MT-GLAZE	33K JA	1/16W
R5652	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R5653	301 298 6518	MT-GLAZE	3.3K FA	1/16W
R5654	945 047 8155	INDUCTOR,390 OHM		
R567	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R569	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R570	301 225 8110	MT-GLAZE	10 JA	1/16W
R5701	301 298 5511	MT-GLAZE	8.2K FA	1/16W
R5702	301 301 8010	MT-GLAZE	1.5K FA	1/16W
R5703	301 301 3718	MT-GLAZE	2K FA	1/16W
R5704	301 224 9019	MT-GLAZE	10K JA	1/16W
R5705	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R5706	301 224 9415	MT-GLAZE	1M JA	1/16W
R571	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R572	301 224 9019	MT-GLAZE	10K JA	1/16W
R573	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R574	301 225 1814	MT-GLAZE	47 JA	1/16W
R5751	301 224 9019	MT-GLAZE	10K JA	1/16W
R5752	301 224 9019	MT-GLAZE	10K JA	1/16W
R5755	301 255 6018	MT-GLAZE	1M JA	1/10W
R5756	301 294 3016	MT-GLAZE	10K FA	1/16W
R5758	301 225 8110	MT-GLAZE	10 JA	1/16W
R5759	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R5760	301 299 5312	MT-GLAZE	12K FA	1/16W
R5761	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R5799	301 224 8913	MT-GLAZE	100K JA	1/16W
R583	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R586	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
R6201	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6202	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6203	301 224 9019	MT-GLAZE	10K JA	1/16W
R6204	301 224 9019	MT-GLAZE	10K JA	1/16W
R6206	301 224 9019	MT-GLAZE	10K JA	1/16W
R6211	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6212	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6213	301 224 9019	MT-GLAZE	10K JA	1/16W
R6214	301 224 9019	MT-GLAZE	10K JA	1/16W
R6216	301 224 9019	MT-GLAZE	10K JA	1/16W
R6803	301 224 9019	MT-GLAZE	10K JA	1/16W
R6813	301 224 9019	MT-GLAZE	10K JA	1/16W
R6841	301 225 8011	MT-GLAZE	330 JA	1/16W
R6843	301 225 8011	MT-GLAZE	330 JA	1/16W
R6844	301 224 9019	MT-GLAZE	10K JA	1/16W
R6848	301 225 2019	MT-GLAZE	680 JA	1/16W
R6849	301 225 2019	MT-GLAZE	680 JA	1/16W
R6851	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6852	301 224 9019	MT-GLAZE	10K JA	1/16W
R6853	301 301 3510	MT-GLAZE	200 JA	1/16W
R6856	301 224 9019	MT-GLAZE	10K JA	1/16W
R6857	301 225 1616	MT-GLAZE	390 JA	1/16W
R6858	301 225 1616	MT-GLAZE	390 JA	1/16W
R6859	301 225 1616	MT-GLAZE	390 JA	1/16W
R6861	301 224 9019	MT-GLAZE	10K JA	1/16W
R6862	301 224 9019	MT-GLAZE	10K JA	1/16W
R6863	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R689	301 224 9019	MT-GLAZE	10K JA	1/16W
R690	301 224 9019	MT-GLAZE	10K JA	1/16W
R6952	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6953	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6954	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6956	301 225 1210	MT-GLAZE	4.7K JA	1/16W

Key. No.	Part No.	Description		
R6957	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6958	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R6959	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R696	301 224 9019	MT-GLAZE	10K JA	1/16W
R6961	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6964	301 224 9019	MT-GLAZE	10K JA	1/16W
R6966	301 224 9019	MT-GLAZE	10K JA	1/16W
R6967	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6968	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R698	301 224 9019	MT-GLAZE	10K JA	1/16W
R7201	301 224 9019	MT-GLAZE	10K JA	1/16W
R7202	301 224 9019	MT-GLAZE	10K JA	1/16W
R7203	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7204	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7206	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7207	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7208	301 224 9316	MT-GLAZE	1K JA	1/16W
R7209	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7211	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7212	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7221	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7222	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7226	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7227	301 224 9019	MT-GLAZE	10K JA	1/16W
R7228	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7232	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7233	301 224 9019	MT-GLAZE	10K JA	1/16W
R7234	301 224 9712	MT-GLAZE	22 JA	1/16W
R7236	301 224 9712	MT-GLAZE	22 JA	1/16W
R7237	301 224 9712	MT-GLAZE	22 JA	1/16W
R7242	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7243	301 224 9019	MT-GLAZE	10K JA	1/16W
R7244	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7246	301 224 9019	MT-GLAZE	10K JA	1/16W
R7247	301 225 1814	MT-GLAZE	47 JA	1/16W
R7248	301 225 1814	MT-GLAZE	47 JA	1/16W
R7249	301 225 1814	MT-GLAZE	47 JA	1/16W
R7251	301 225 1814	MT-GLAZE	47 JA	1/16W
R7252	301 225 1814	MT-GLAZE	47 JA	1/16W
R7253	301 225 1814	MT-GLAZE	47 JA	1/16W
R7261	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7262	301 224 9019	MT-GLAZE	10K JA	1/16W
R7263	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R7264	301 301 8119	MT-GLAZE	3.9K FA	1/16W
R7266	301 294 2613	MT-GLAZE	4.7K FA	1/16W
R7267	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7271	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7272	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7273	301 298 5511	MT-GLAZE	8.2K FA	1/16W
R7274	301 298 5818	MT-GLAZE	9.1K FA	1/16W
R7276	301 294 3511	MT-GLAZE	27K FA	1/16W
R7277	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7278	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
R7281	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7282	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7283	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7284	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7286	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7287	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7288	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7289	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7301	301 224 9712	MT-GLAZE	22 JA	1/16W
R7303	301 224 9712	MT-GLAZE	22 JA	1/16W
R7307	301 224 9316	MT-GLAZE	1K JA	1/16W
R7308	301 224 9316	MT-GLAZE	1K JA	1/16W

Key. No.	Part No.	Description		
R7309	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7311	301 225 8110	MT-GLAZE	10 JA	1/16W
R7312	301 225 8110	MT-GLAZE	10 JA	1/16W
R7313	301 225 8110	MT-GLAZE	10 JA	1/16W
R7314	301 225 8110	MT-GLAZE	10 JA	1/16W
R7316	301 224 9316	MT-GLAZE	1K JA	1/16W
R7317	301 224 9019	MT-GLAZE	10K JA	1/16W
R7318	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7319	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7321	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7322	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7323	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7801	301 224 9019	MT-GLAZE	10K JA	1/16W
R7802	301 224 9316	MT-GLAZE	1K JA	1/16W
R7803	301 224 9316	MT-GLAZE	1K JA	1/16W
R7804	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7806	301 261 1014	MT-GLAZE	2.4K JA	1/16W
R7807	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R7808	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7809	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R7811	301 284 3613	MT-GLAZE	16K JA	1/16W
R7812	301 225 0510	MT-GLAZE	33K JA	1/16W
R7821	301 224 9019	MT-GLAZE	10K JA	1/16W
R7822	301 261 1014	MT-GLAZE	2.4K JA	1/16W
R7823	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R7824	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7841	301 224 9019	MT-GLAZE	10K JA	1/16W
R7842	301 224 9316	MT-GLAZE	1K JA	1/16W
R7843	301 224 9316	MT-GLAZE	1K JA	1/16W
R7844	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7846	301 261 1014	MT-GLAZE	2.4K JA	1/16W
R7847	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R7848	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7849	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R7851	301 284 3613	MT-GLAZE	16K JA	1/16W
R7852	301 225 0510	MT-GLAZE	33K JA	1/16W
R7861	301 224 9019	MT-GLAZE	10K JA	1/16W
R7862	301 261 1014	MT-GLAZE	2.4K JA	1/16W
R7863	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R7864	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7871	301 224 9019	MT-GLAZE	10K JA	1/16W
R7872	301 224 9316	MT-GLAZE	1K JA	1/16W
R7873	301 224 9316	MT-GLAZE	1K JA	1/16W
R7874	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R7876	301 261 1014	MT-GLAZE	2.4K JA	1/16W
R7877	301 336 8818	MT-GLAZE	6.8K FA	1/16W
R7878	301 294 2811	MT-GLAZE	2.2K FA	1/16W
R7879	301 224 9514	MT-GLAZE	2.2K JA	1/16W
R7881	301 284 3613	MT-GLAZE	16K JA	1/16W
R7882	301 225 0510	MT-GLAZE	33K JA	1/16W
R7891	301 224 9019	MT-GLAZE	10K JA	1/16W
R7892	301 224 9019	MT-GLAZE	10K JA	1/16W
R7893	301 224 9316	MT-GLAZE	1K JA	1/16W
R801	301 224 9019	MT-GLAZE	10K JA	1/16W
R804	301 224 9019	MT-GLAZE	10K JA	1/16W
R806	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R807	301 224 9019	MT-GLAZE	10K JA	1/16W
R808	301 224 9019	MT-GLAZE	10K JA	1/16W
R809	301 294 4419	MT-GLAZE	1.8K FA	1/16W
R812	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R846	301 224 9316	MT-GLAZE	1K JA	1/16W
R851	301 224 9316	MT-GLAZE	1K JA	1/16W
R852	301 225 1210	MT-GLAZE	4.7K JA	1/16W
R8811	301 225 8110	MT-GLAZE	10 JA	1/16W
R8812	301 225 8110	MT-GLAZE	10 JA	1/16W
R8821	301 225 8110	MT-GLAZE	10 JA	1/16W
R8822	301 225 8110	MT-GLAZE	10 JA	1/16W
R890	301 224 9316	MT-GLAZE	1K JA	1/16W
R891	301 224 9019	MT-GLAZE	10K JA	1/16W
R892	301 224 9019	MT-GLAZE	10K JA	1/16W
R893	301 225 8110	MT-GLAZE	10 JA	1/16W
R895	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R898	301 224 8814	MT-GLAZE	100 JA	1/16W
RB221	645 049 0675	R-NETWORK 33X4		1/32W
	945 049 0690	R-NETWORK 33X4		1/16W
RB222	645 049 0675	R-NETWORK 33X4		1/32W
	945 049 0690	R-NETWORK 33X4		1/16W
RB223	645 049 0675	R-NETWORK 33X4		1/32W
	945 049 0690	R-NETWORK 33X4		1/16W
RB224	645 049 0675	R-NETWORK 33X4		1/32W
	945 049 0690	R-NETWORK 33X4		1/16W
RB226	645 049 0675	R-NETWORK 33X4		1/32W
	945 049 0690	R-NETWORK 33X4		1/16W
RB227	645 049 0675	R-NETWORK 33X4		1/32W
	945 049 0690	R-NETWORK 33X4		1/16W
RB301	945 034 5051	R-NETWORK 22X4		1/32W
	945 037 0824	R-NETWORK 22X4		1/16W
RB302	945 034 5051	R-NETWORK 22X4		1/32W
	945 037 0824	R-NETWORK 22X4		1/16W
RB303	945 034 5051	R-NETWORK 22X4		1/32W
	945 037 0824	R-NETWORK 22X4		1/16W
RB304	945 034 5051	R-NETWORK 22X4		1/32W
	945 037 0824	R-NETWORK 22X4		1/16W
RB306	945 034 5051	R-NETWORK 22X4		1/32W
	945 037 0824	R-NETWORK 22X4		1/16W
RB307	945 034 5051	R-NETWORK 22X4		1/32W
	945 037 0824	R-NETWORK 22X4		1/16W
RB406	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB407	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB408	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB409	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB411	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB412	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB413	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB414	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB416	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB417	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB418	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB419	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB421	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB422	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB423	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB424	945 036 0986	R-NETWORK 47X4		1/32W
	945 037 0831	R-NETWORK 47X4		1/16W
RB426	945 036 0986	R-NETWORK 47X4		1/32W

Key. No.	Part No.	Description
	945 037 0831	R-NETWORK 47X4 1/16W
RB427	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB431	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB432	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB433	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB434	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB436	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB437	645 049 0675	R-NETWORK 33X4 1/32W
	945 049 0690	R-NETWORK 33X4 1/16W
RB4501	945 029 5783	R-NETWORK 100X4 1/32W
	945 028 0697	R-NETWORK 100X4 1/16W
RB501	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB502	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB503	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB531	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB532	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB533	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB561	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB562	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB563	945 036 3529	R-NETWORK 0X4 1/32W
	945 037 0817	R-NETWORK 0X4 1/16W
RB7201	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB7202	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB7203	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB7204	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB7206	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
RB7207	945 036 0986	R-NETWORK 47X4 1/32W
	945 037 0831	R-NETWORK 47X4 1/16W
COIL		
L1001	945 068 8349	FILTER,EMI 400MHZ
L1011	945 068 8349	FILTER,EMI 400MHZ
L1021	945 068 8349	FILTER,EMI 400MHZ
L1031	945 068 8332	FILTER,EMI 200MHZ
L1041	945 068 8332	FILTER,EMI 200MHZ
L1051	945 068 8349	FILTER,EMI 400MHZ
L1061	945 068 8349	FILTER,EMI 400MHZ
L1071	945 068 8349	FILTER,EMI 400MHZ
L1081	945 068 8332	FILTER,EMI 200MHZ
L1091	945 068 8332	FILTER,EMI 200MHZ
L1371	945 062 2930	INDUCTOR,10U M
L1451	945 080 6828	INDUCTOR,3.3U M
L1452	945 080 6828	INDUCTOR,3.3U M
L1454	945 059 2240	INDUCTOR,2.2U M
L1455	945 059 2240	INDUCTOR,2.2U M
L1456	945 059 2240	INDUCTOR,2.2U M
L1801	945 050 8470	IMPEDANCE,600 OHM P

Key. No.	Part No.	Description		
L1803	945 059 1748	INDUCTOR,2.2U J		
L2071	945 086 7577	FILTER,EMI 400MHZ		
L2081	945 086 7577	FILTER,EMI 400MHZ		
L2091	945 086 7577	FILTER,EMI 400MHZ		
L2092	945 086 7461	FILTER,EMI 100MHZ		
L2501	945 059 1755	INDUCTOR,22U J		
L2531	945 059 1755	INDUCTOR,22U J		
L2561	945 059 1755	INDUCTOR,22U J		
L2581	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
L2582	301 035 4111	MT-GLAZE	0.000 ZA	1/8W
L2891	945 041 1978	INDUCTOR,330 OHM		
L2892	645 092 3616	IMPEDANCE,22 OHM P		
L301	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L302	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L303	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L304	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L305	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L3051	945 068 8325	FILTER,EMI 20MHZ		
L3052	945 068 8325	FILTER,EMI 20MHZ		
L306	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L307	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L308	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L309	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L311	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L312	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L313	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L314	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L3581	945 062 2824	INDUCTOR,3.3U M		
L3621	945 041 1978	INDUCTOR,330 OHM		
L3622	645 092 3616	IMPEDANCE,22 OHM P		
L3623	945 041 1978	INDUCTOR,330 OHM		
L3624	945 041 1978	INDUCTOR,330 OHM		
L3626	645 092 3616	IMPEDANCE,22 OHM P		
L3627	945 041 1978	INDUCTOR,330 OHM		
L3628	945 041 1978	INDUCTOR,330 OHM		
L3629	645 092 3616	IMPEDANCE,22 OHM P		
L3631	945 041 1978	INDUCTOR,330 OHM		
L3632	945 041 1978	INDUCTOR,330 OHM		
L3633	645 092 3616	IMPEDANCE,22 OHM P		
L3634	945 041 1978	INDUCTOR,330 OHM		
L3636	945 041 1978	INDUCTOR,330 OHM		
L3637	645 092 3616	IMPEDANCE,22 OHM P		
L3638	945 041 1978	INDUCTOR,330 OHM		
L4581	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L4591	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
L4811	645 092 3616	IMPEDANCE,22 OHM P		
L4812	945 041 1978	INDUCTOR,330 OHM		
L4813	645 092 3616	IMPEDANCE,22 OHM P		
L4814	645 092 3616	IMPEDANCE,22 OHM P		
L4891	645 092 3616	IMPEDANCE,22 OHM P		
L4892	645 092 3616	IMPEDANCE,22 OHM P		
L501	945 080 6828	INDUCTOR,3.3U M		
L502	945 080 6828	INDUCTOR,3.3U M		
L503	945 080 6828	INDUCTOR,3.3U M		
L5201	945 041 1978	INDUCTOR,330 OHM		
L5202	945 041 1978	INDUCTOR,330 OHM		
L531	945 080 6828	INDUCTOR,3.3U M		
L532	945 080 6828	INDUCTOR,3.3U M		
L533	945 080 6828	INDUCTOR,3.3U M		
L5331	945 041 1978	INDUCTOR,330 OHM		
L5332	945 032 8344	INDUCTOR,39U J		
L5601	645 092 3616	IMPEDANCE,22 OHM P		
L5602	645 092 3616	IMPEDANCE,22 OHM P		
L561	945 080 6828	INDUCTOR,3.3U M		
L562	945 080 6828	INDUCTOR,3.3U M		

Key. No.	Part No.	Description
L563	945 080 6828	INDUCTOR,3.3U M
L5651	945 062 2855	INDUCTOR,33U M
L5701	945 041 1978	INDUCTOR,330 OHM
L5702	945 038 4579	INDUCTOR,33U M
L5751	945 041 1978	INDUCTOR,330 OHM
L5752	945 041 1978	INDUCTOR,330 OHM
L5753	945 041 1978	INDUCTOR,330 OHM
L6201	945 041 1978	INDUCTOR,330 OHM
L6211	945 041 1978	INDUCTOR,330 OHM
L6801	945 041 1978	INDUCTOR,330 OHM
L6802	645 092 3616	IMPEDANCE,22 OHM P
L6803	645 092 3616	IMPEDANCE,22 OHM P
L6804	645 092 3616	IMPEDANCE,22 OHM P
L8841	945 041 1978	INDUCTOR,330 OHM
L8842	645 092 3616	IMPEDANCE,22 OHM P
L8843	645 092 3616	IMPEDANCE,22 OHM P
DIODE		
D1101	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D1102	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D1111	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D1112	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D1371	307 254 2716	DIODE CMS16
D1451	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D1452	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D1801	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D200	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D201	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2071	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D2091	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D2891	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D2892	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D3551	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3552	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3601	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3611	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3612	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3617	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3621	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3622	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3623	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3624	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3626	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3627	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3628	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3629	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3631	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3632	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D3633	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D4011	307 210 5416	DIODE RB551V-30-TE-17
D4012	307 210 5416	DIODE RB551V-30-TE-17
D4812	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D4813	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D5201	307 210 5416	DIODE RB551V-30-TE-17
D5202	307 210 5416	DIODE RB551V-30-TE-17
D5203	307 210 5416	DIODE RB551V-30-TE-17
D5204	307 210 5416	DIODE RB551V-30-TE-17
D5331	307 210 5416	DIODE RB551V-30-TE-17
D5332	307 210 5416	DIODE RB551V-30-TE-17
D5601	307 201 2724	DIODE RB051L-40-TE25
D5651	307 254 2716	DIODE CMS16
D5704	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D5751	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3
	307 209 4512	ZD UDZS-TE-176.8B
D6201	307 205 5216	DIODE RB521S-30-TE61
D6202	307 205 5216	DIODE RB521S-30-TE61
D6203	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6204	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3
	307 209 1214	ZD UDZS-TE-176.2B
D6211	307 205 5216	DIODE RB521S-30-TE61
D6212	307 205 5216	DIODE RB521S-30-TE61
D6822	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6823	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6824	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6826	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6827	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6828	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6829	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6831	407 264 6312	LED SMLE12Y8W T86
D6832	407 264 6510	LED SMLE12V8W T86
D6833	307 222 4810	LED SML-521MUW T86
D6834	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6836	307 163 0414	DIODE 1SS352-(TPH3)
	307 149 0810	DIODE 1SS355-TE-17
D6841	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D6842	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D6843	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D6844	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D6846	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)
D8751	407 264 6213	LED SMLE12D8W T86
MISCELLANEOUS		
F5751	423 034 3401	FUSE 32V 0.8A
FB602	945 041 1978	INDUCTOR,330 OHM
FB603	945 041 1978	INDUCTOR,330 OHM

Key. No.	Part No.	Description
FB606	945 041 1978	INDUCTOR,330 OHM
FB607	945 041 1978	INDUCTOR,330 OHM
FB609	945 041 1978	INDUCTOR,330 OHM
K20C	645 098 0824	JACK,RCA-3
K30A	645 089 7696	SOCKET,D-SUB 15P
	952 001 8601	SOCKET,D-SUB 15P
K30B	645 089 7702	SOCKET,D-SUB 15P
	952 001 8571	SOCKET,D-SUB 15P
K40C	945 078 1613	SOCKET,DIN 8P
SC1031	945 076 3503	SURGE-ABSORBER
SC1041	945 076 3503	SURGE-ABSORBER
SC1081	945 076 3503	SURGE-ABSORBER
SC1091	945 076 3503	SURGE-ABSORBER
SC2071	945 076 3503	SURGE-ABSORBER
SC2081	945 076 3503	SURGE-ABSORBER
SC2091	945 076 3503	SURGE-ABSORBER
SC2092	945 076 3503	SURGE-ABSORBER
SC3051	945 076 3503	SURGE-ABSORBER
SC3052	945 076 3503	SURGE-ABSORBER
SW841	945 026 2792	SWITCH,PUSH 1P-1TX1
SWRST	945 026 2792	SWITCH,PUSH 1P-1TX1
X1331	945 088 7179	OSC,CRYSTAL 27.0MHZ
X1801	645 092 8857	OSC,CRYSTAL 48MHZ
X4501	945 060 9900	OSC,CERAMIC 8.00MHZ
X7201	945 079 6372	OSC,CRYSTAL 14.31818MHZ

A2001 610 347 2096 ASSY,PWB,AV.KV7AE

CAPACITOR				
C2001	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2011	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2021	303 358 3215	CERAMIC	10U K	6.3V
	303 368 7319	CERAMIC	10U K	6.3V
C2031	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C2051	303 397 8219	CERAMIC	2.2U K	25V
C2052	303 397 8219	CERAMIC	2.2U K	25V
C3001	303 397 8219	CERAMIC	2.2U K	25V
C3011	303 397 8219	CERAMIC	2.2U K	25V
RESISTOR				
R2001	301 258 2611	MT-GLAZE	150 FA	1/10W
R2009	301 258 2611	MT-GLAZE	150 FA	1/10W
R2011	301 258 2611	MT-GLAZE	150 FA	1/10W
R2015	301 258 2611	MT-GLAZE	150 FA	1/10W
R2019	301 258 2611	MT-GLAZE	150 FA	1/10W
R2021	301 258 2611	MT-GLAZE	150 FA	1/10W
R2031	301 224 8814	MT-GLAZE	100 JA	1/16W
R2036	301 225 8110	MT-GLAZE	10 JA	1/16W
R2037	301 225 8110	MT-GLAZE	10 JA	1/16W
R2038	301 225 8110	MT-GLAZE	10 JA	1/16W
R2051	301 224 8913	MT-GLAZE	100K JA	1/16W
R2052	301 224 8814	MT-GLAZE	100 JA	1/16W
R2053	301 225 1418	MT-GLAZE	47K JA	1/16W
R2054	301 224 8913	MT-GLAZE	100K JA	1/16W
R2056	301 224 8814	MT-GLAZE	100 JA	1/16W
R2057	301 225 1418	MT-GLAZE	47K JA	1/16W
R3001	301 224 8913	MT-GLAZE	100K JA	1/16W
R3003	301 224 8814	MT-GLAZE	100 JA	1/16W
R3011	301 224 8913	MT-GLAZE	100K JA	1/16W
R3013	301 224 8814	MT-GLAZE	100 JA	1/16W
R3021	301 224 8913	MT-GLAZE	100K JA	1/16W
R3022	301 224 8814	MT-GLAZE	100 JA	1/16W
R3031	301 224 8913	MT-GLAZE	100K JA	1/16W
R3032	301 224 8814	MT-GLAZE	100 JA	1/16W
COIL				
L2001	945 068 8318	FILTER,EMI 100MHZ		
L2011	945 086 7461	FILTER,EMI 100MHZ		
L2021	945 086 7461	FILTER,EMI 100MHZ		
L2031	945 086 7461	FILTER,EMI 100MHZ		
L2051	945 068 8325	FILTER,EMI 20MHZ		
L2052	945 068 8325	FILTER,EMI 20MHZ		
L3001	945 068 8325	FILTER,EMI 20MHZ		
L3011	945 068 8325	FILTER,EMI 20MHZ		
L3021	945 068 8325	FILTER,EMI 20MHZ		
L3031	945 068 8325	FILTER,EMI 20MHZ		
DIODE				
D2031	307 223 0514	ZENER DIODE 02DZ12Y(TPH3)		
MISCELLANEOUS				
K20A	645 089 9041	SOCKET,DIN 4P		
K20B	645 098 0831	JACK,RCA-3		
K40A	945 006 4792	JACK,PHONE D3.6		
K40B	945 006 4792	JACK,PHONE D3.6		
SC2001	945 076 3503	SURGE-ABSORBER		
SC2011	945 076 3503	SURGE-ABSORBER		
SC2021	945 076 3503	SURGE-ABSORBER		
SC2031	945 076 3503	SURGE-ABSORBER		
SC2051	945 076 3503	SURGE-ABSORBER		
SC2052	945 076 3503	SURGE-ABSORBER		
SC3001	945 076 3503	SURGE-ABSORBER		
SC3011	945 076 3503	SURGE-ABSORBER		
SC3021	945 076 3503	SURGE-ABSORBER		
SC3031	945 076 3503	SURGE-ABSORBER		

A2901 610 347 2126 ASSY,PWB,R/C.KV7AE

CAPACITOR				
C2901	403 455 1012	CERAMIC	1U K	10V
	303 433 1112	CERAMIC	1U K	10V
C2902	303 282 5118	CERAMIC	470P K	50V
C2903	303 380 0114	CERAMIC	47U M	6.3V
RESISTOR				
R2901	301 225 1814	MT-GLAZE	47 JA	1/16W
R2902	301 224 8814	MT-GLAZE	100 JA	1/16W
MISCELLANEOUS				
A2901	945 084 1997	UNIT,REMOCON RECEIVER		

A690 610 347 2119 ASSY,PWB,LAMP COVER SW.KV7AE

SW901	945 063 5176	SWITCH,PUSH 2P-2TX3

A4831 610 347 2133 ASSY,PWB,TEMP.KV7AE

CAPACITOR				
C4831	303 276 3113	CERAMIC	33P J	50V
C4832	303 276 3113	CERAMIC	33P J	50V
C4833	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C4834	303 379 6714	CERAMIC	10U K	16V

Key. No.	Part No.	Description		
RESISTOR				
R4831	301 225 8110	MT-GLAZE	10 JA	1/16W
R4832	301 225 8110	MT-GLAZE	10 JA	1/16W
R4833	301 224 9019	MT-GLAZE	10K JA	1/16W

A6801 610 347 2157 ASSY,PWB,KEY SW.KV7AE

CAPACITOR				
C6801	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6802	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6803	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6804	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6806	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
C6807	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
RESISTOR				
R6800	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R6801	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6802	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6804	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6806	301 224 9217	MT-GLAZE	15K JA	1/16W
R6807	301 234 9917	MT-GLAZE	6.8K JA	1/16W
R6808	301 225 1517	MT-GLAZE	3.9K JA	1/16W
R6809	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6811	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6812	301 225 0213	MT-GLAZE	3.3K JA	1/16W
R6821	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
R6822	301 224 8814	MT-GLAZE	100 JA	1/16W
DIODE				
D6801	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		
	307 209 1214	ZD UDZS-TE-176.2B		
D6802	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		
	307 209 1214	ZD UDZS-TE-176.2B		
D6803	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		
	307 209 1214	ZD UDZS-TE-176.2B		
MISCELLANEOUS				
SW6800	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6802	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1		
SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1		

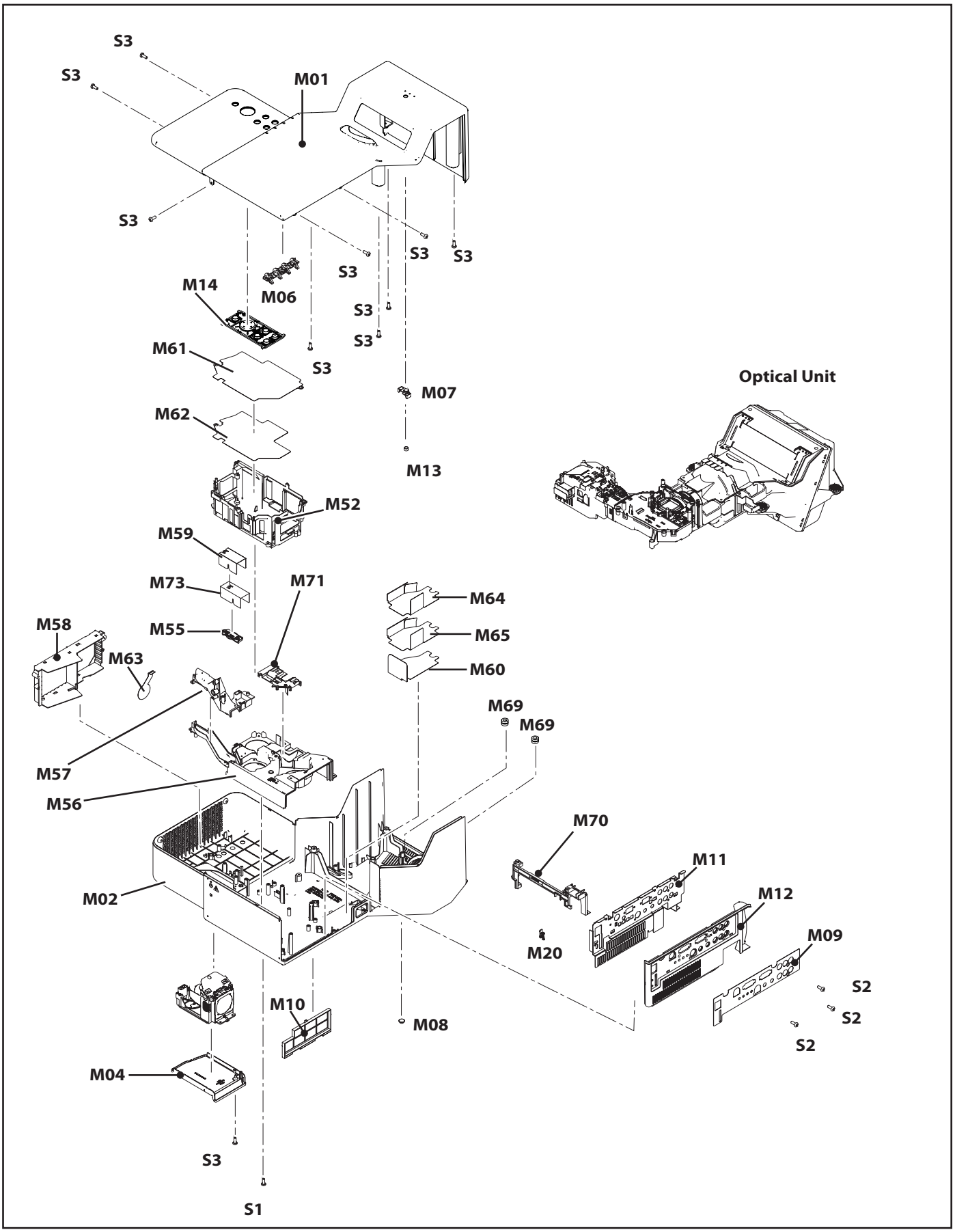
A200 610 347 2140 ASSY,LED.KV7AE

CAPACITOR				
C251	303 438 0219	CERAMIC	0.1U K	16V
	303 409 3426	CERAMIC	0.1U K	16V
DIODE				
D251	407 264 6411	LED SMLE12M8W T86		
D252	407 264 6411	LED SMLE12M8W T86		
D253	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3		

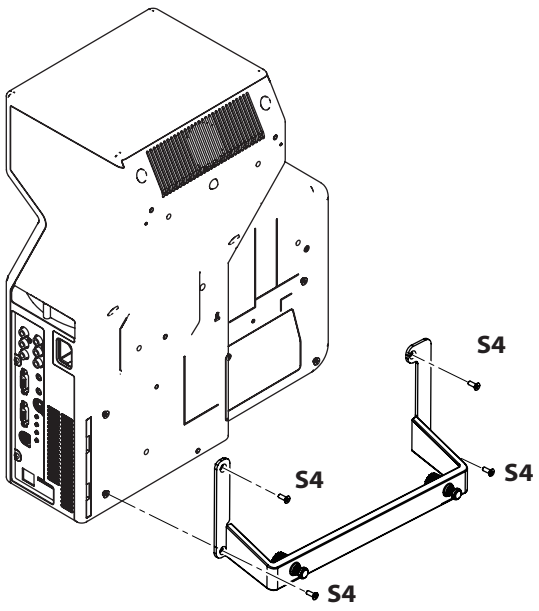
Key. No.	Part No.	Description
	307 209 1214	ZD UDZS-TE-176.2B

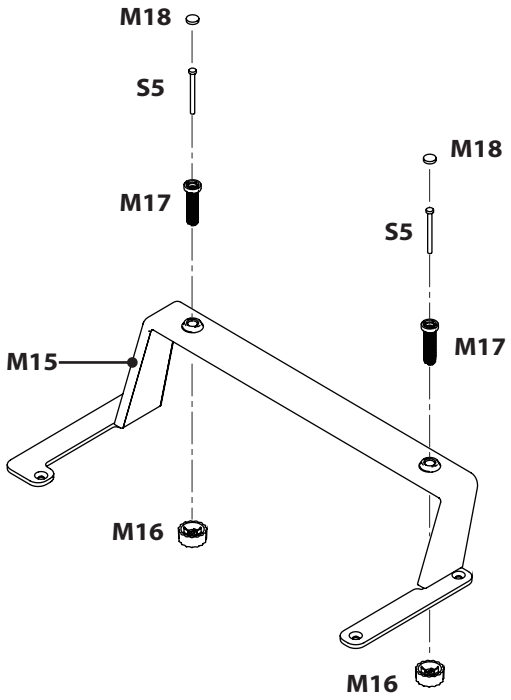
Mechanical Parts List

Mechanical Parts Location



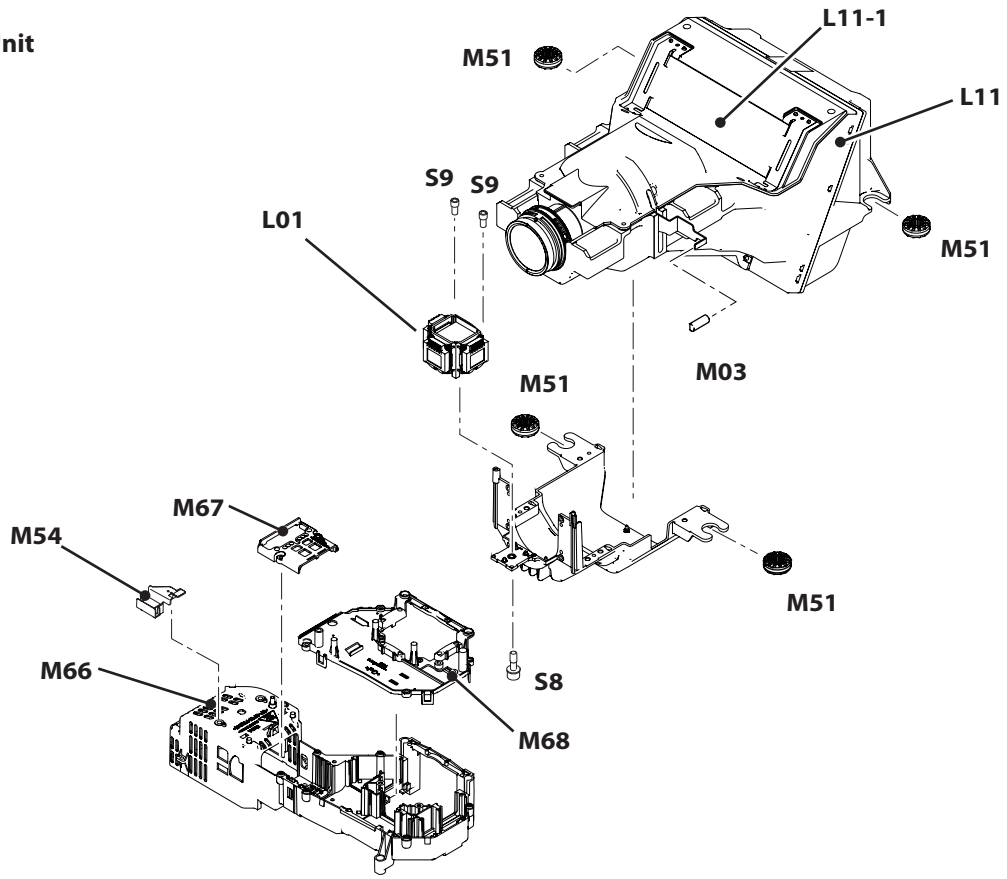
STAND

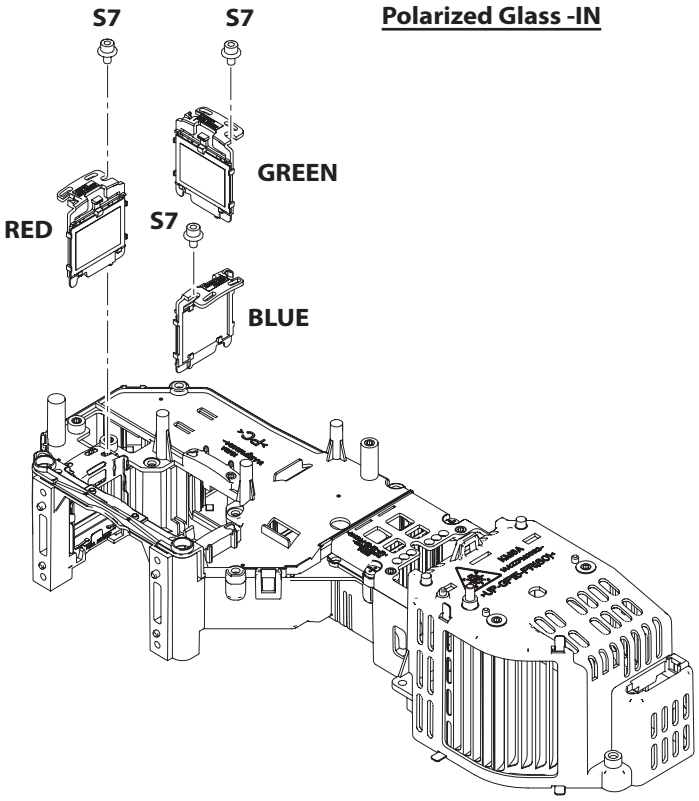




Optical Parts Location

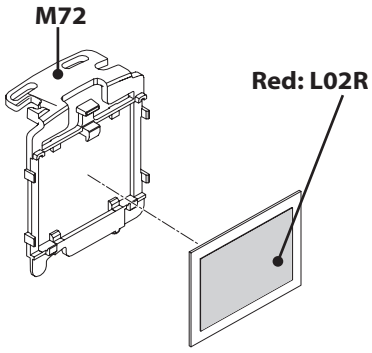
Optical Unit



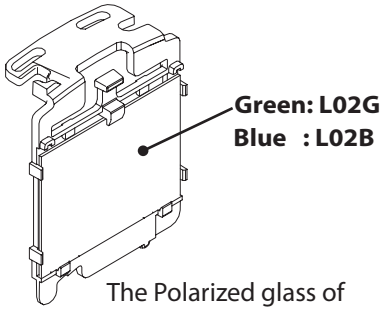


Polarized Glass -IN

Polarized Glass (Red)

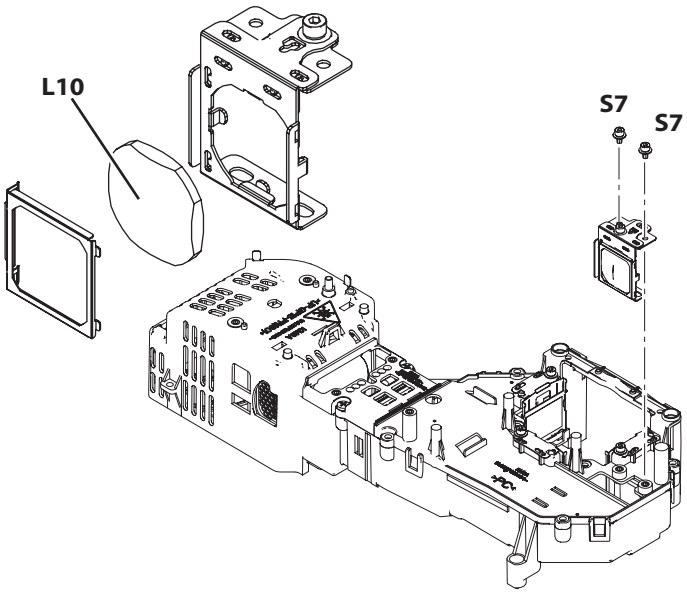


Polarized Glass (Green, Blue)

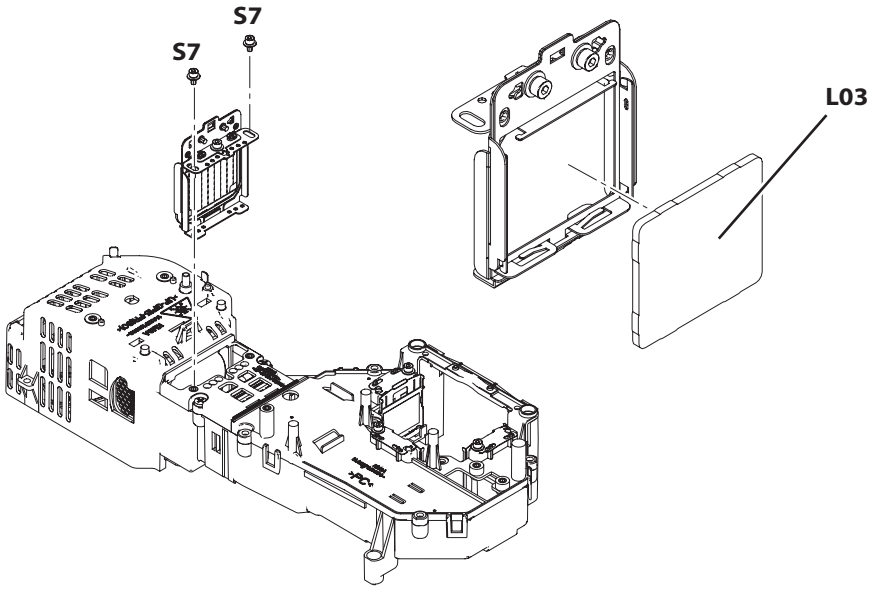


The Polarized glass of Green and Blue include the holder.

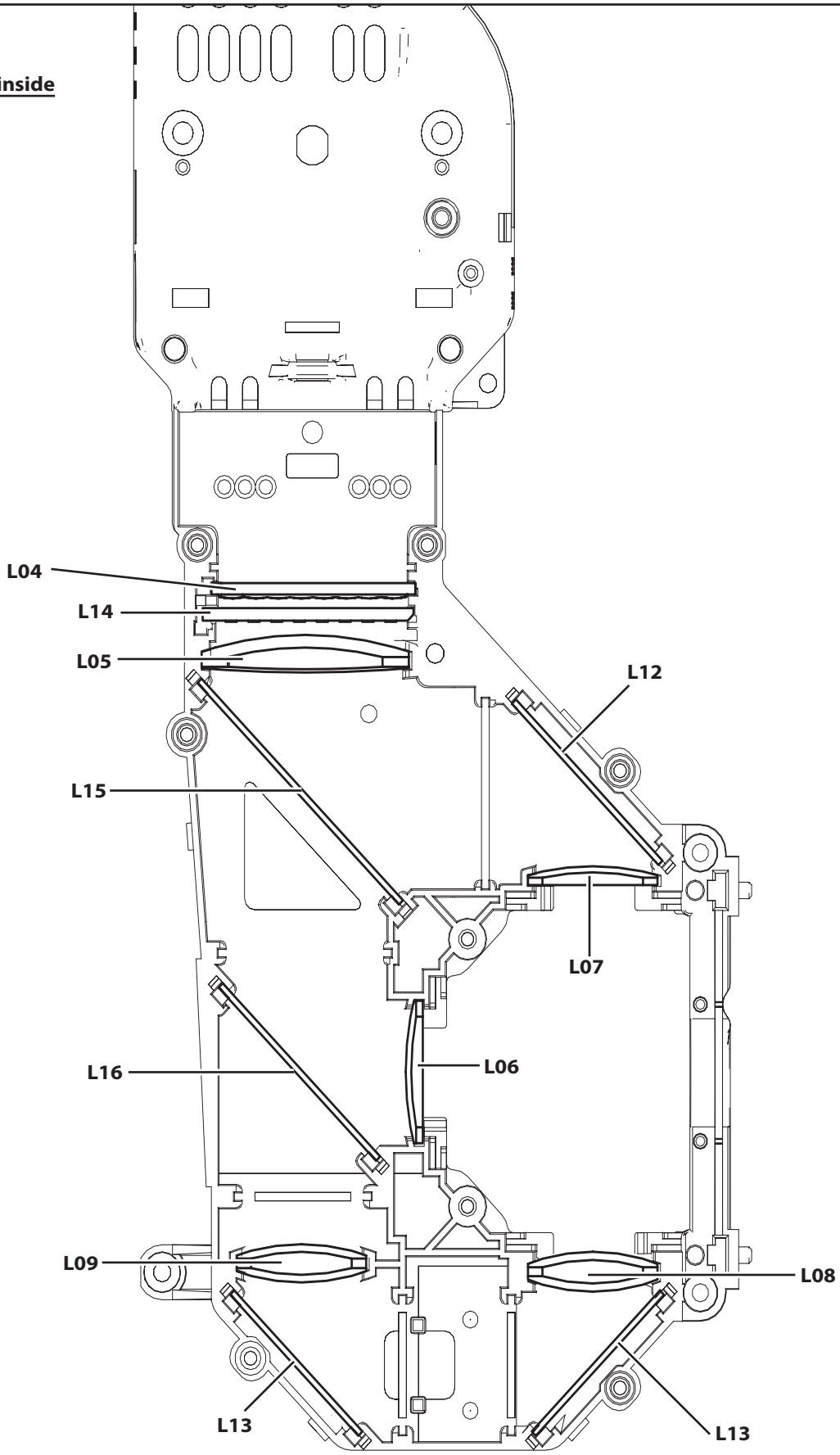
Relay Lens out



Integrator Lens In



Optical unit inside



Key. No.	Part No.	Description
CABINET & CHASSIS PARTS		
M01	610 347 8326	CABINET TOP-KM3AB
M02	610 347 5318	CABINET BOTTOM-KM3AB
M03	610 336 2595	CAP FOCUS LEVER-KM3A
M04	610 347 8845	COVER ,LP SERVICE-KM3AB
M06	610 335 7041	DEC INLAY LED-KM3A
M07	610 335 7027	DEC INLAY RC F-KM3A
M08	910 295 3085	DEC LEG-MW6A
M09	610 348 1197	DEC AV SHEET-KV7AE
M10	610 335 4057	FILTER BASE-KM3A
M11	610 341 0234	HOLDER AV-KV7A
M12	610 348 1203	PANEL AV-KV7AE
M13	610 338 4108	PIPE RC-KM3A
M14	610 336 2472	BUTTON-KM3A
M15	610 336 7729	ASSY,STAND PLATE-KM3A
M16	610 337 1559	CAP STAND LEG-KM3A
M17	610 337 1597	STAND LEG-KM3A
M18	610 337 1511	DEC STAND LEG-KM3A
M20	610 340 5421	DEC INLAY MCI LED-KV7A
M51	610 335 7294	BUSH-KM3A
M52	610 334 4348	HOLDER POWER PWB BTM-KM6AC
M54	610 336 2601	HOLDER TRIGGER BOX-KM3A
M55	610 336 7156	HOLDER T SW-KM3A
M56	610 335 4200	MOUNTING DUCT BTM-KM3A
M57	610 341 2634	MOUNTING DUCTTOP A-KV7A
M58	610 335 4101	MOUNTING DUCT EXH-KM3A
M59	610 338 1800	SPACER SHEET TMP SW-KM3A
M60	610 338 3897	SPACER SHEET AC PWB-KM3A
M61	610 336 8399	SPACER SHEET#POW T TOP-KM3A
M62	610 336 8290	SPACER SHEET#POW T BTM-KM3A
M63	610 336 8573	SPACER SHEET FAN-KM3A
M64	610 336 9457	SPACER SHEET AC-KM3A
M65	610 336 9402	SPACER SHEET AC T-KM3A
M66	610 331 1692	OPTICAL BASE BTM-KM6A
M67	610 331 1715	OPTICAL BASE TOP A-KM6A
M68	610 331 1722	OPTICAL BASE TOP B-KM6A
M69	645 094 5908	DAMPER,BUSH(DIA12*H9)
M70	610 340 5384	MOUNTING MCI-KV7A
M71	610 341 0210	MOUNTING DUCT TOP B-KV7A
M72	610 341 0203	HOLDER POL IN GB-KV7A
M73	610 349 7037	SPACER SHEET TMP SW-KV7AE
SCREWS		
S01	411 189 7207	SCR S-TPG BIN 3X8
S02	411 214 2900	SCR S-TPG PAN 3X6
S03	411 189 8600	SCR BIN 3X8
S04	411 216 8603	SCR FLT 4X12
S05	411 216 8108	SCR S-TPG PAN 3X35
S07	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5
S08	412 077 5701	SPECIAL SCREW-3.0X10V
S09	312 069 7105	SPECIAL SCREW V

Key. No.	Part No.	Description
OPTICAL PARTS DIRECTORY		
L01	610 341 3006	ASSY,PNL/PSM-KV7A
L02R	645 097 6711	POLARIZED GLASS(IN/R)
L02G	645 098 5461	ASSY,POLARIZED GLASS(G)
L02B	645 098 2156	ASSY,POLARIZED GLASS
L03	945 088 7797	LENS,INTEGRATOR(IN)
L04	645 098 8820	LENS,INTEGRATOR(OUT)NC*
L05	645 095 9851	LENS,CONDENSER(OUT)NC
L06	645 095 9868	LENS,CONDENSER(G)NC
L07	945 088 7841	LENS,CONDENSER(B)
L08	945 088 7858	LENS,CONDENSER(R)
L09	945 088 7865	LENS,RELAY(IN)
L10	945 088 7872	LENS,RELAY(OUT)
L11	645 102 2431	LENS,PROJECTION
	(Including Key No. L11-1)	
L11-1	645 099 2346	OPTICAL FILTER (B270)
L12	945 088 7889	MIRROR(B)
L13	945 088 7896	MIRROR(R)
L14	645 092 9892	PRISM(PBS)
L15	945 088 7902	DICHROIC MIRROR (B)
L16	945 088 7919	DICHROIC MIRROR (G)
PACKING MATERIALS		
	610 338 9455	CUSHION SPACER BTM-KM3A
	610 348 1159	CARTON CASE-KV7AE
	610 336 8207	CUSHION SPACER-KM3A
	610 336 8382	CUSHION A-KM3A
	610 336 8474	CUSHION B-KM3A
	645 096 4015	POLY BAG-0750X0600*NC*R8P
	610 340 6121	IND POLYE COVER PR4-PD4AA
ACCESSORIES		
OWNER'S MANUAL		
	610 344 4413	CD-ROM(NETWORK V&C5)
	610 347 9347	CD-ROM,OWNERS MANUAL-KV7AE
	610 347 9118	SETUP INST MANUAL-KV7AE
REMOTE CONTROL		
	645 098 5881	ASSY,REMOCON CXZY
	910 321 4482	RC-BATTERY LID-CXTJ
MISCELLANEOUS		
	910 314 8985	LABEL,PIN CODE-MY7A
	610 347 9385	COMPL,FERRITE CORE-KV7AE
	945 073 4855	CABLE,INTERFACE VGA
	645 093 1642	CABLE,INTERFACE VGA
AC CORD		
⚠ (US)	945 064 6363	CORD,POWER-3.0MK,US
⚠ (EU)	945 054 1156	CORD,POWER-3.0MK
⚠ (UK)	945 054 1149	CORD,POWER-3.138MK
SERVICE TOOL		
	610 343 5596	CD-ROM,PJ SVC TOOL V420

SM5111176-00 (PLC-XL51A) Dec. 2009 DC 200 Printed in Japan

SANYO Electric Co., Ltd.

Diagrams & Drawings

Schematic Diagrams
Printed Wiring Board Drawings

Model	Chassis No.
PLC-XL51A	KV7-XL51A00

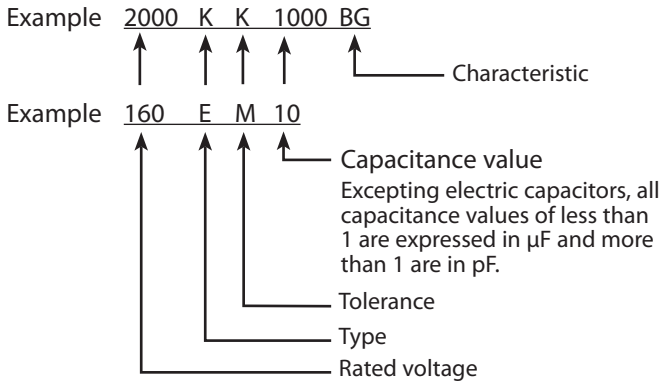
These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. KV7-XL51A00 models PLC-XL51A.
File with the service manual No. SM511176-00

Note:
All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

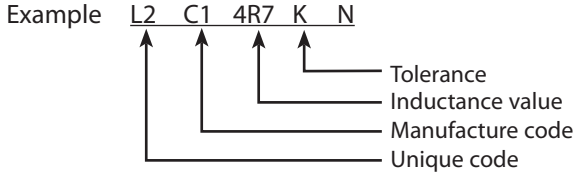
● **Material table**

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● **Tolerance table**

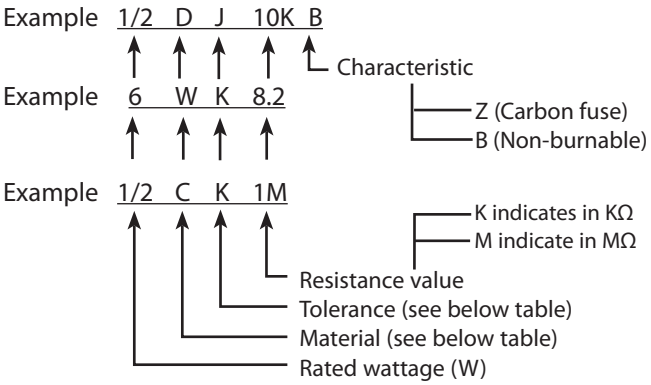
Mark	Tolerance	
A	not specified	
B	±0.1	
C	±0.25	
D	±0.5	
F	±1	
G	±2	
E	±2.5	
H	±3	
J	±5	
K	±10	
M	±20	
N	±30	
P	+100	-0
Q	+30	-10
T	+50	-10
U	+75	-10
V	+20	-10
W	+100	-10
X	+40	-20
Y	+150	-10
Z	+80	-20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● **Material table**

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

● **Tolerance table**

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● **Diode**

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

● **Transistor**

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

(2) PNP type

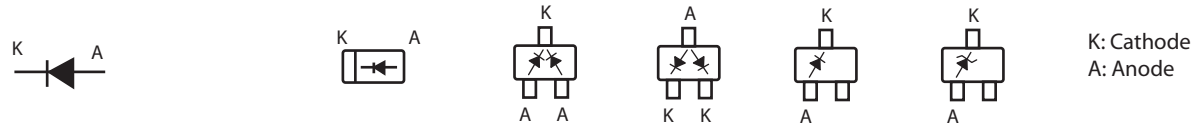
Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

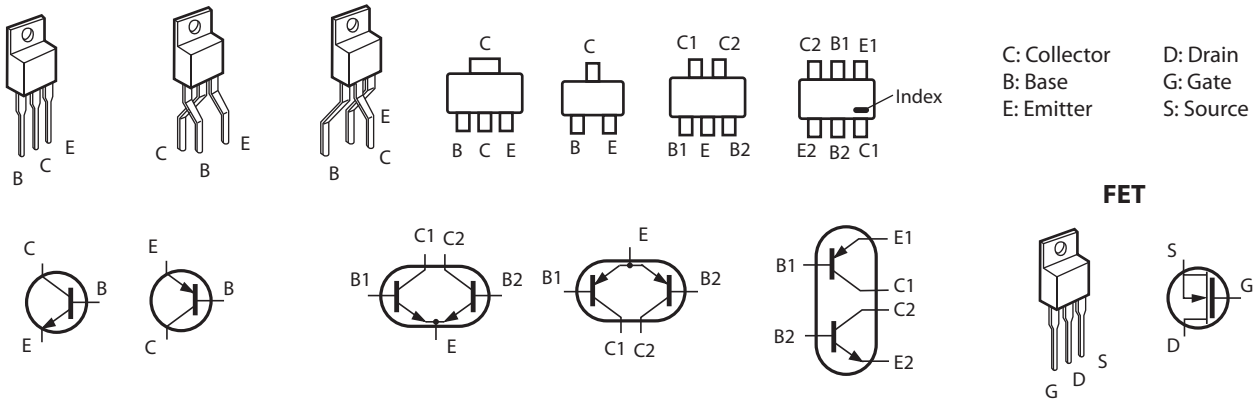
Mark	Type number				
--	2SA1179N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

Pin description of diode, transistor and IC

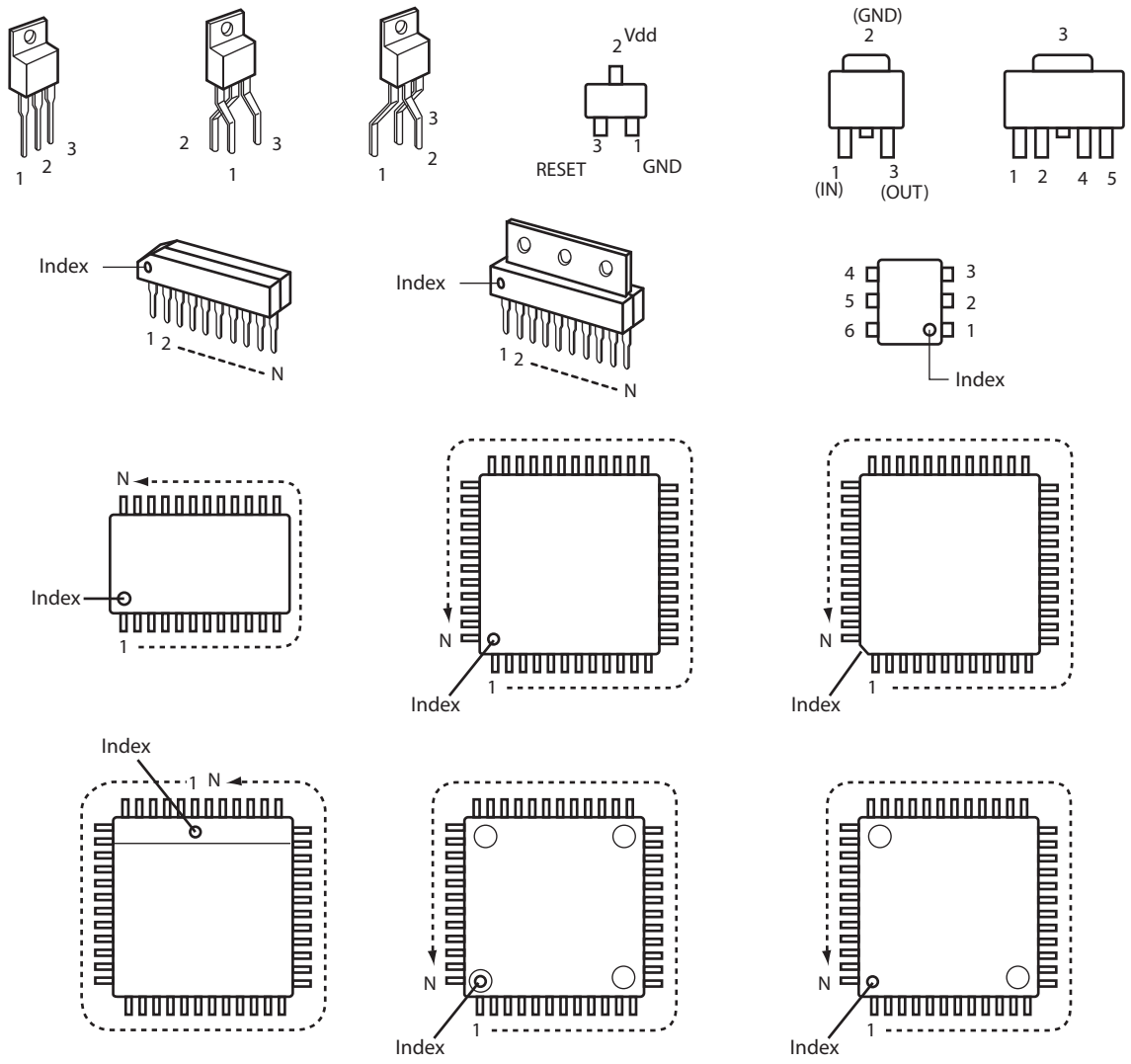
● Diode



● Transistor/FET



● IC



Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment.

Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

Schematic Diagrams

POWER

POWER FACTOR CORRECTION

IC621 FA5550NG

IC631 MR4010-7101

HOT

COLD

S16V

S6V

S-5V

LINE FILTER

SW902 S1085H10N (TEMP/OVSTAT_SW) (15A)

W901 AC CORD

AC100-130V AC200-240V

CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

AV

S-VIDEO

VIDEO

VIDEO AUDIO_IN

PC AUDIO_IN

AUDIO_OUT

S_SW_EXT

S_CHROMA_EXT

S_V_EXT

VIDEO_EXT

VIDEO_L_EXT

VIDEO_R_EXT

PC_R_EXT

PC_L_EXT

OUT_R

OUT_L

OUT_DET_EXT

K50A J10DC306G

TEMP

TEMP SENSOR 1
(OUTSIDE)

IC4831 MC9801T-M/SN

K48E J10B5-0402G

KEY SW

K6801A J10B5005G

P_RIGHT
P_LEFT
P_DOWN
P_UP
KEYSTONE
SELECT
INPUT
MENU
POWER

MIRROR LENS

LAMP

LAMP BALLAST
A901

CN1 J10M1015N
CN2 LAMP_DET, GND, 5V, LAMP_SW, ECO
CN3
CN4

LP900

K8H J10E2031G
LAMP_DET
GND
5V
LAMP_SW
ECO

K8R J10R012QG
ES16V
ES16V
GND
GND
ES6V
ES6V
GND
GND
ES-5V
GND
LAMPDC_ON
POWER_SW_MCU

K8F J10P051G

K6N J10E0035G
FN903 1AVAW10B04100
EXHAUST SIDE LAMP

K6P J10E0035G
FN904 1AVAW10B03302
EXHAUST SIDE POWER

K6M J10E0035G
FN902 1AVAW10B03201
B-PNL

K6L J10E0035G
FN901 1AVAW10B03203
G/R-PNL

K6Q J10E0036G
FN905 1AVAW10B04200
INTAKE PBS PANEL

K8T J10E0045G

K10A J10E330G

K201 J10E5046G

K8K J10E5056G

SPEAKER
SP901
1AVAA10B22500

WIRELESSNET ACTIVE

SD CARD ACTIVE

LED

K251 J10E5045G

NETWORK

P:7-9

K9301 J10QU502G

K9501 J11E0340Q

K8941 J10RL300G

K9601 J10RL800G

K8V J11CY300G

K8W J11CY800G

MODULE

IC9501 RF-LEG2000SB01

K9502 J10B1240G

ANTENNA

IC9901 L90B2050G

K9901 J10B2340G

MAIN

P:2-6

CAUTION

Components indicated by a mark ⚠ in this schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

This projector is isolated AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing.
(1) Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
(2) Do not shorten the circuit between hot and cold sides.
(3) The grounding lead must be connected to the ground of the same circuit when measuring of voltage and waveforms.

K35R J11EA405G — R LCD PANEL — EL902R

K35G J11EB403G — G LCD PANEL — EL901G

K35B J11EA405G — B LCD PANEL — EL903B

K8S J10B5004G — K690 J10E5036G — SW901 S1084A70N MICRO SW

LAMP COVER SW

R/C

K8D J10E5044G

K29D J10B5044G

R/C PRE AMP

SCH_KV7AE

A3

PC1
RGB/
SCART

PC2
RGB-IN/
RGB-OUT

COMPONENT

FROM AV

CONTROL
PORT

IC4001
AD8075ARUP

IC4021
TC7SET08FUP

IC4022
TC7SET08FUP

IC4011
TC74HC4053AFT

IC6201
24LC21A/SNP

IC6202
TC74LVX4053FT

IC6211
24LC21A/SNP

IC6212
TC74LVX4053FT

IC5641
PQ20WZ11P

IC5201
AN5870SBG

IC3801
HIN202EIBNZP

IC5302
TC7WH125FUK

R1_IN
G1_IN
B1_IN
H1_IN
V1_IN
R2_IN
G2_IN
B2_IN
H2_IN
V2_IN

MONIT_OUT
LOW:IN
HIGH:MONITOR OUT

DDC1_PCA
DDC2_PCA
SDA2_5V
SCL2_5V
DDC1_PCB
DDC2_PCB
DDC_SW1
DDC_SW2
V_PC2

CABLE_SW
COMP_SW

VIDEO_EXT
S_CHROMA_EXT
S_Y_EXT
S_SW_EXT
VIDEO_L_EXT
VIDEO_R_EXT
PC_R_EXT
PC_L_EXT
OUT_DET_EXT

VIDEO_L
VIDEO_R
PC_R
PC_L
OUT_L
OUT_R

VIDEO
S_CHROMA
S_Y
S_SW
OUT_DET

R1OUT
G1OUT
B1OUT

R1
G1
B1

SYNC_A
SYNC_B
SSYNC
CSYNC
H1IN
H2IN
V1IN
V2IN

P_FAIL
12V
5V
5.5V
3.3V_FW

SCART_CV
TO IC301(409PIN:US)

TO IC301
(331PIN:AC7)

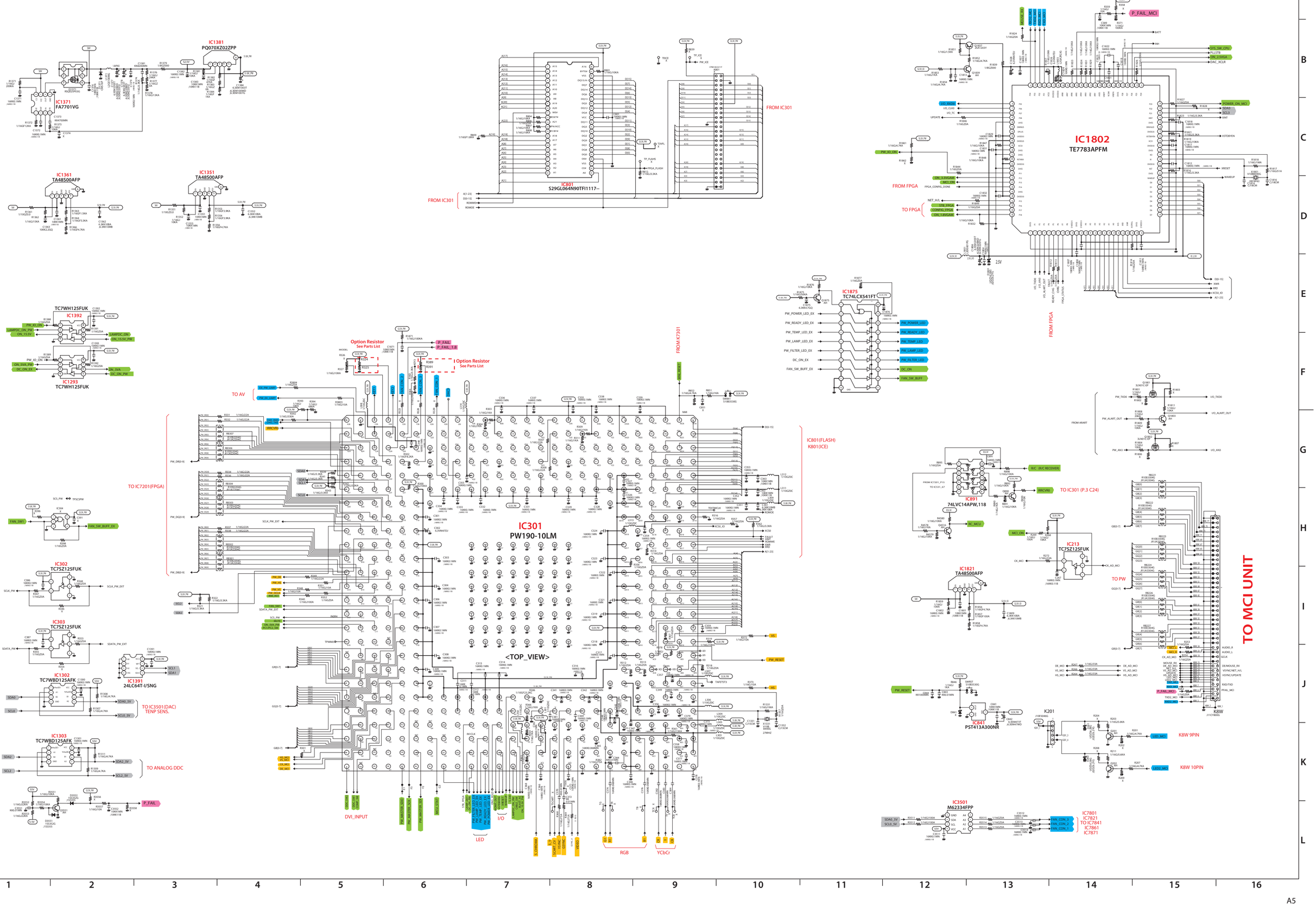
TO IC301
(161PIN:AE11)

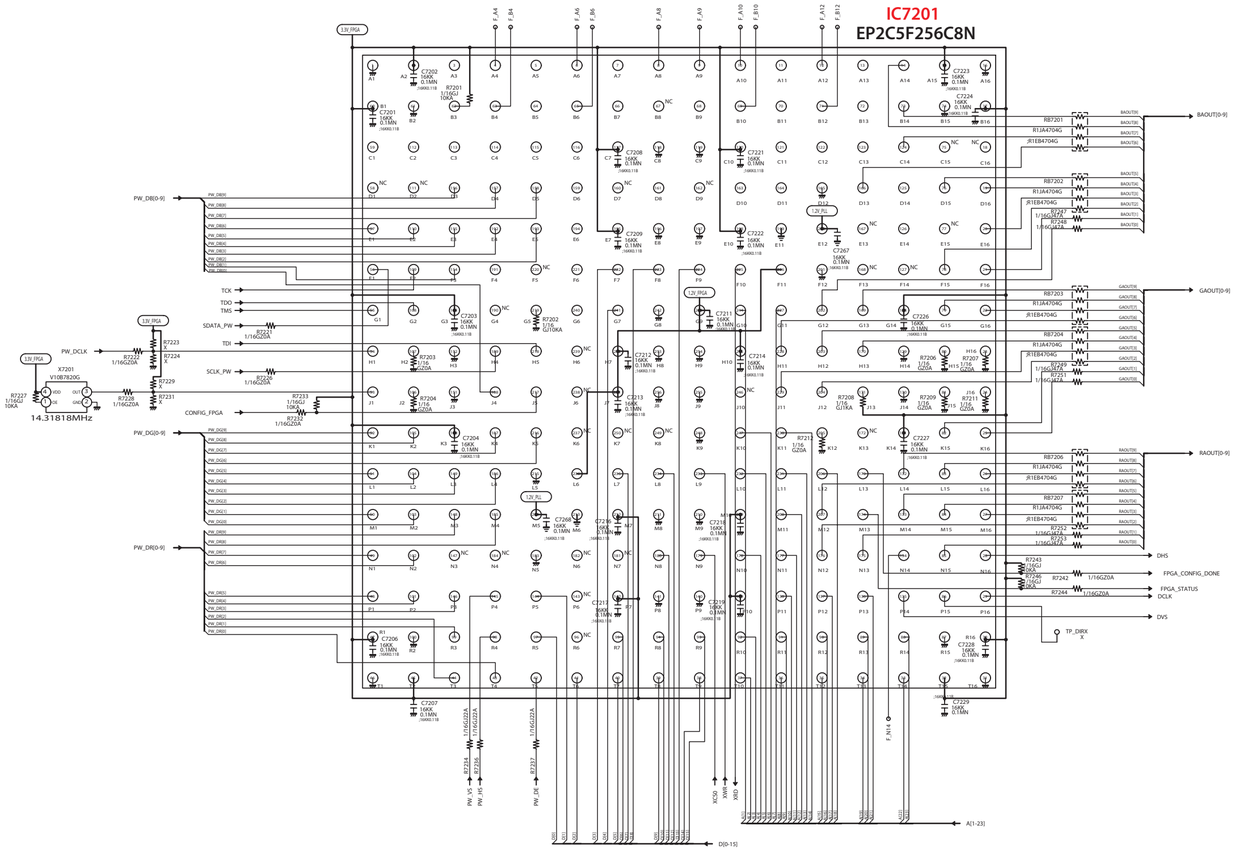
EX_CPU_UART
CPU_EX_UART

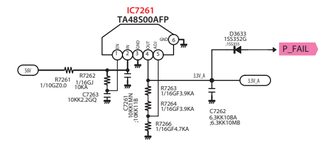
PC_SW

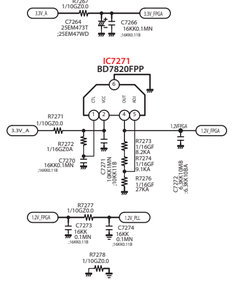
A4

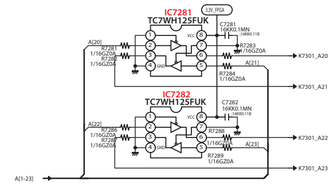
SCH_KV7AE

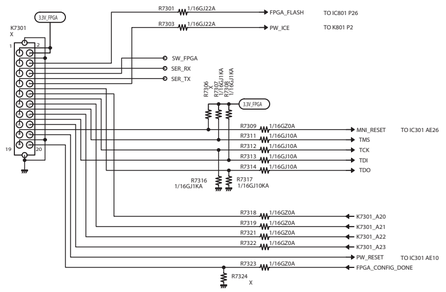

IC1371
FA7701VG
IC1381
PQ070XZ02ZPP
IC1361
TA48500AFP
IC1351
TA48500AFP
IC801
S29GL064N90TFI1117--
FROM IC301
TO FPGA
FROM FPGA
IC1802
TE7783APFM
P_FAIL_MCI
IC1875
TC74LCX541FT
IC1392
TC7WH125FUK
IC1293
TC7WH125FUK
Option Resistor
See Parts List
TO AV
IC301
PW190-10LM
<TOP_VIEW>
TO IC7201(FPGA)
FROM IK7301
IC801(FLASH)
K801(ICE)
IC891
74LVC14APW,118
IC213
TC7SZ125FUK
IC1821
TA48500AFP
TO PW
TO MCI UNIT
IC302
TC7SZ125FUK
IC303
TC7SZ125FUK
IC1302
TC7WBD125AFK
IC1391
24LC64T-I/SNG
TO IC3501(DAC)
TEMP SENS.
IC1303
TC7WBD125AFK
TO ANALOG DDC
IC304
IC1293
IC841
PST413A300NR
K201
K8W
K8W 9PIN
K8W 10PIN
IC3501
M62334FPP
IC7801
IC7821
TO IC7841
IC7861
IC7871
DVI_INPUT
I/O
LED
RGB
YCbCr
TO IC301 (P.3 C24)
TO IC3501 (DAC)
TO IC7201(FPGA)
FROM AMART


IC7201
EP2C5F256C8N
3.3V_FPGA
1.2V_FPGA
1.5V_FPGA
2.5V_FPGA
PW_DB[0-9]
PW_DG[0-9]
PW_DR[0-9]
TCK
TDO
TMS
SDATA_PW
TDI
SCLK_PW
CONFIG_FPGA
PW_DCLK
14.31818MHz
BAOUT[0-9]
GAOUT[0-9]
RAOUT[0-9]
DHS
FPGA_CONFIG_DONE
FPGA_STATUS
DCLK
DVS
TP_DIRX
A[1-23]
D[0-15]
PW_V5
PW_H5
PW_DE
XCSI
XWRI
XRDI


IC7261
TA48500AFP
P_FAIL
13V_A


IC7271
BD7820FPP
3.3V_A
1.2V_FPGA
2.5V_FPGA


IC7281
TC7WH125FUK
IC7282
TC7WH125FUK
K7301_A20
K7301_A21
K7301_A22
K7301_A23
A[1-23]


FPGA_FLASH
PW_ICE
SW_FPGA
SER_RX
SER_TX
MNI_RESET
TMS
TCK
TDI
TDO
PW_RESET
FPGA_CONFIG_DONE

IC1491
TA48S00AFP
P_FAIL
ON_3.3VGAM
IC1451
TA48S00AFP
P_FAIL
ON_2.5VGA
IC1441
TA48S00AFP
P_FAIL_1.8
ON_1.8VGAM
IC392
DS92
PW_15V
ON_15.5V
IC5701
PQ20WZ11P
P_FAIL
ON_15.5V
IC561
CXA7009RM
IC531
CXA7009RM
IC501
CXA7009RM
IC401
CXD3540AGBM
<TOP_VIEW>
IC1401
TC7WBDL125AFK
IC1402
TC7WBDL125AFK
IC1404
TC7SH04FUP
IC1443
IC1444
IC1445
GAOUT[0:9]
<FROM:FPGA>
BAOUT[0:9]
<FROM:FPGA>
<FROM:FPGA>
<TOJK25R>
<TOJK25G>
<FROM:PW>
GAN_SDA
GAN_SCL
GCFB_R_OUT
GCFB_G_OUT
GCFB_B_OUT
<TOJCS01>
<TOJCS31>
<TOJCS61>
R
G
B
SCH_KV7AE
A7

LED

KEY SW

R/C

TEMP

LAMP BALAST

LAMP COVER SW

POWER

MCU FOR ECO-STANDBY

(FROM AV JACK)

(FROM MCI)

MCI POWER

SPEAKER

FAN VOLTAGE ADJUST

FAN1

FAN2

FAN3

G/R-P.PANEL

B-P.PANEL

EXHAUST SIDE LAMP

EXHAUST SIDE POWER

INTAKE PBS PANEL

TPFANA

TPFANB

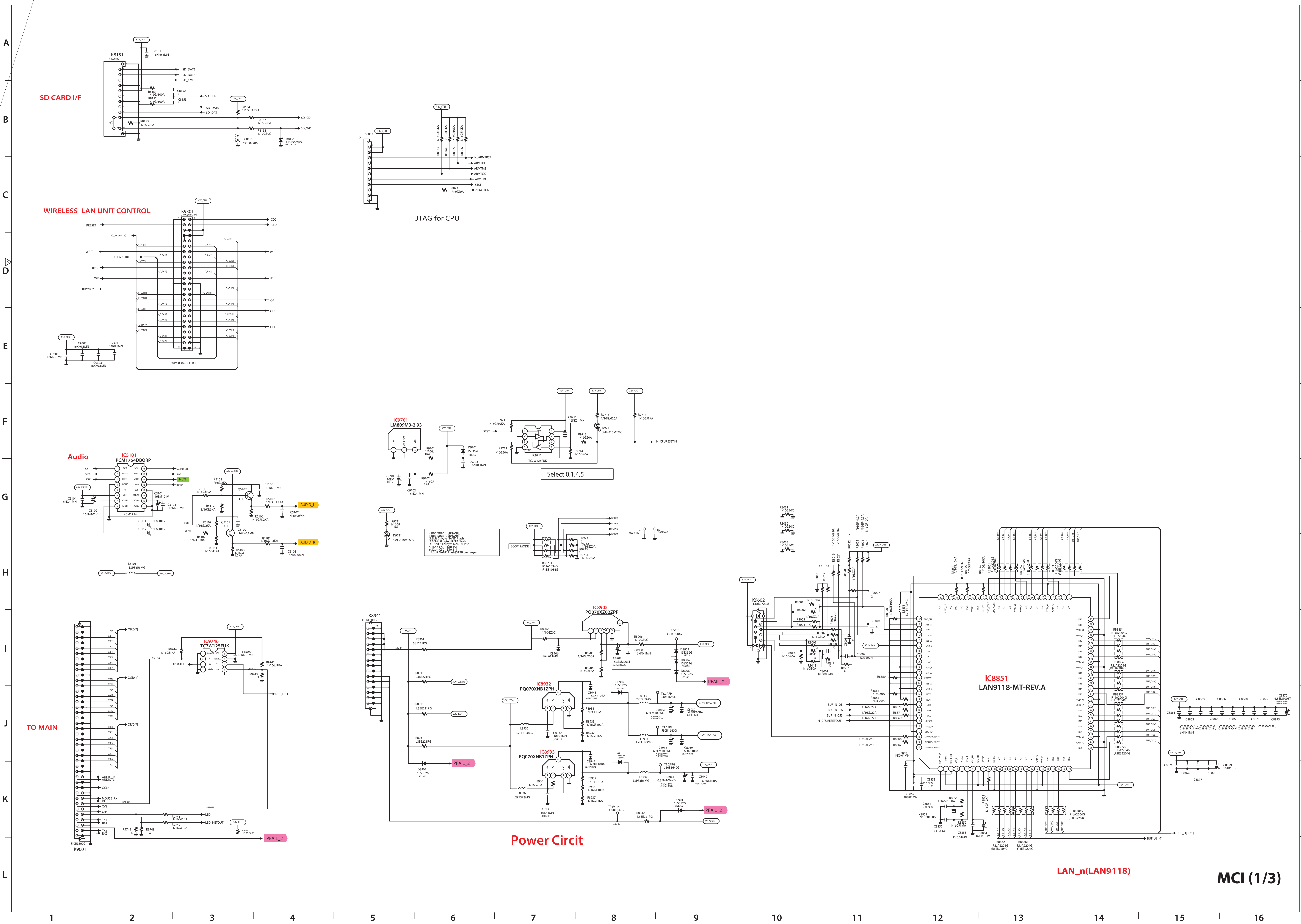
TPFANC

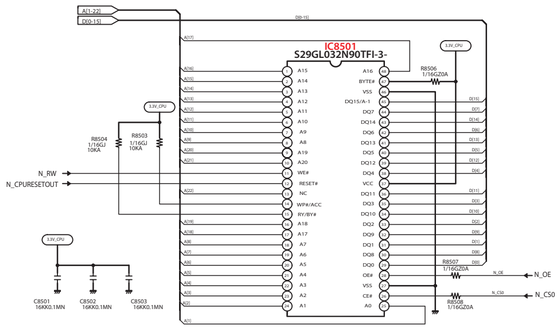
TEMP SENSOR 3 (LAMP)

TEMP SENSOR 2 (PANEL)

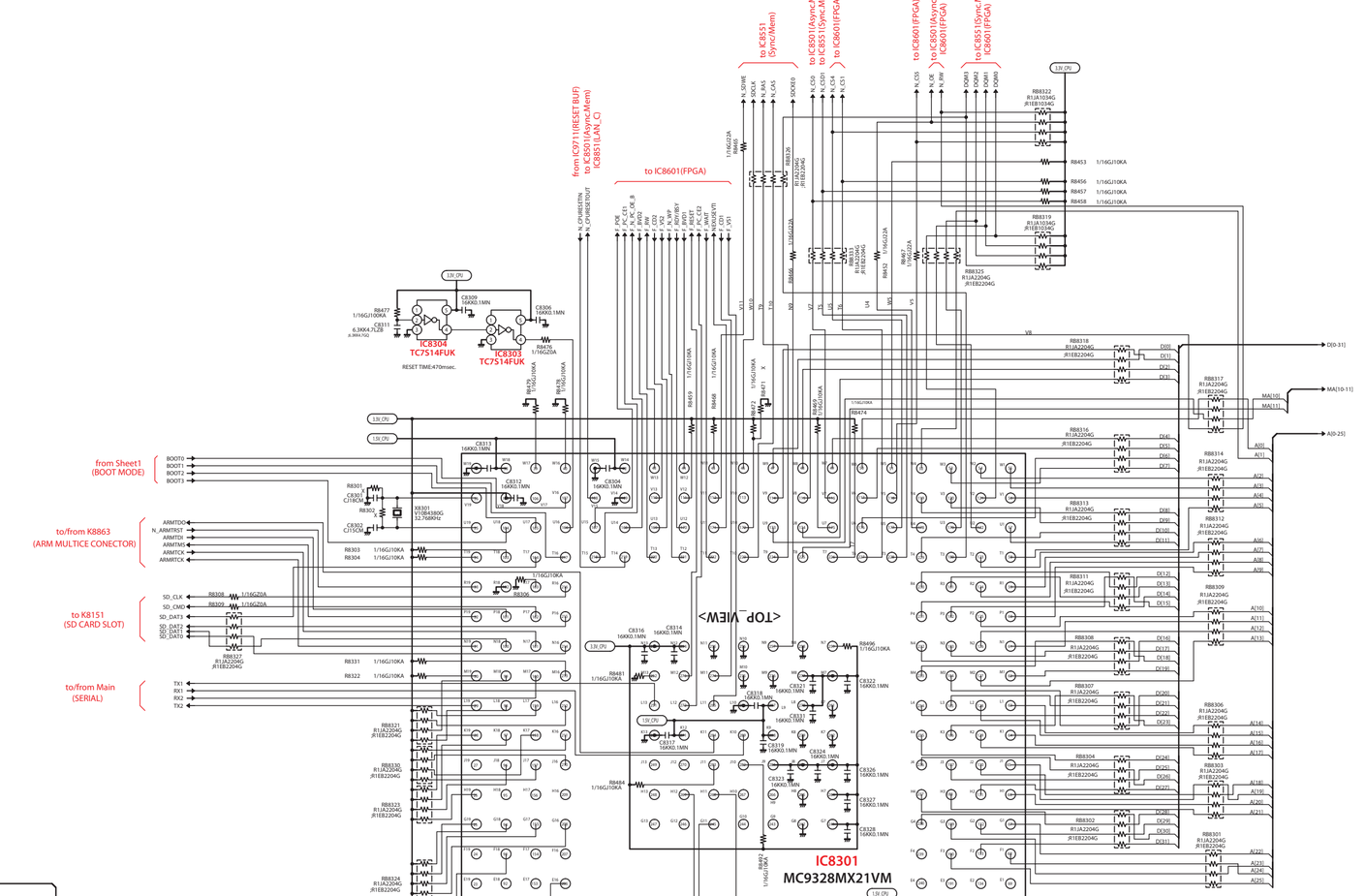
SERIAL MCU <-> PW SWITCH BUFFERS

POWER_SW_MCU	IC6961	IC6962	DEVICE
L	ENABLE	DISABLE	MCU
H	DISABLE	ENABLE	PW392

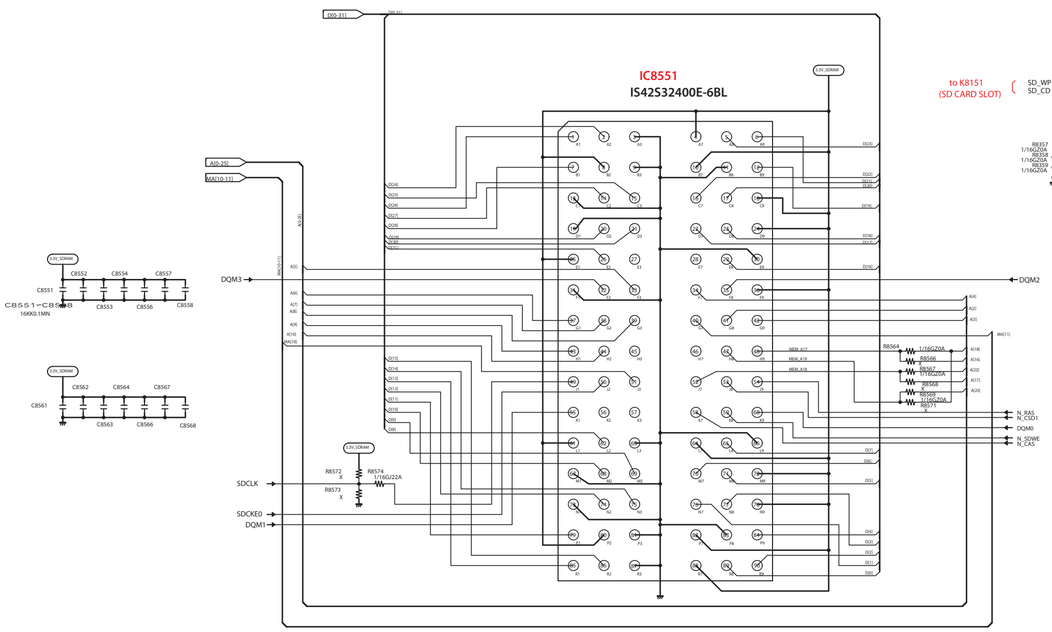

SD CARD I/F
K8151
SD_DAT2
SD_DAT3
SD_CMD
SD_CLK
SD_DAT0
SD_DAT1
SD_CD
SD_WP
JTAG for CPU
K8863
N_ARMTRST
ARMTDI
ARMTMS
ARMTCK
ARMTDO
STST
ARMRTCK
WIRELESS LAN UNIT CONTROL
K9301
50P4.0-JMCS-G-B-TF
Audio
IC5101
PCM1754DBQRP
AUDIO_L
AUDIO_R
MUTE
IC9701
LM809M3-2.93
IC9711
TC7W125FUK
N_CPURESETIN
Select 0,1,4,5
0:Bootstrap(USB/UART)
1:Bootstrap(USB/UART)
2:8bit 2kbyte NAND Flash
3:16bit 2kbyte NAND Flash
4:16bit 512kbyte NAND Flash
5:16bit CS0 D[0:15]
6:32bit CS0 D[0:31]
7:8bit NAND Flash(512B per page)
BOOT_MODE
TO MAIN
K9601
IC9746
TC7W125FUK
K8941
IC8902
PQ070XZ02ZPP
IC8932
PQ070XNB1ZPH
IC8933
PQ070XNB1ZPH
PFAIL_2
Power Circit
K9602
IC8851
LAN9118-MT-REV.A
BUF_D[0-31]
BUF_A[1-7]
LAN_n(LAN9118)
MCI (1/3)



Async_MEM



Sync Mem.



MX21(CPU)

MCI (2/3)

FPGA(FPGA I/F_2&SDRAM)

IC8451
IS42S34200D-6BL

FPGA(FPGA I/F_1)_n(EP2C35F484)

IC8601
EP2C35F484C8N
<TOP_VIEW>

IC8602
TC7SZ08FUP

MCI (3/3)

SCH_KV7AE

A11

NO DATA

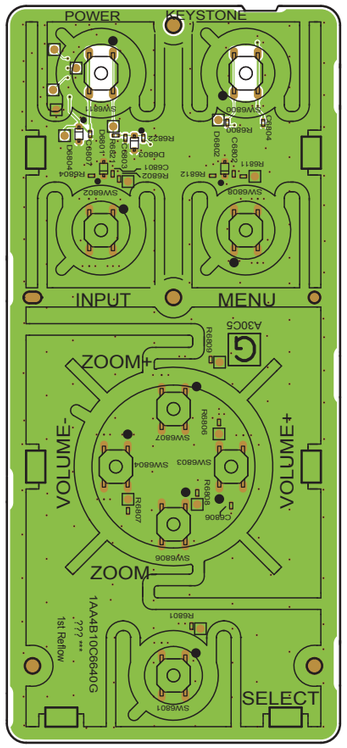
■ Printed Wiring Board Diagrams

⚠ CAUTION

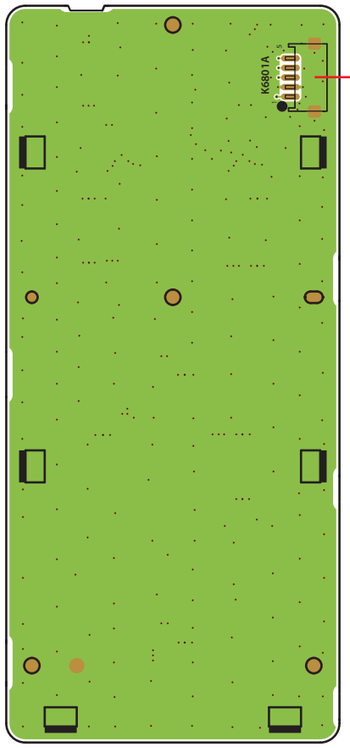
This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

KEY SW (SIDE : A)

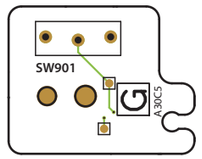


KEY SW (SIDE : B)

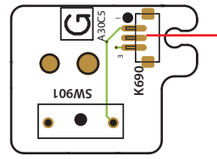


MAIN
"K8K"

LAMP COVER SW (SIDE : A)



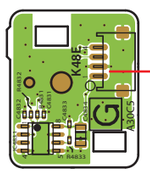
LAMP COVER SW (SIDE : B)



MAIN
"K8S"

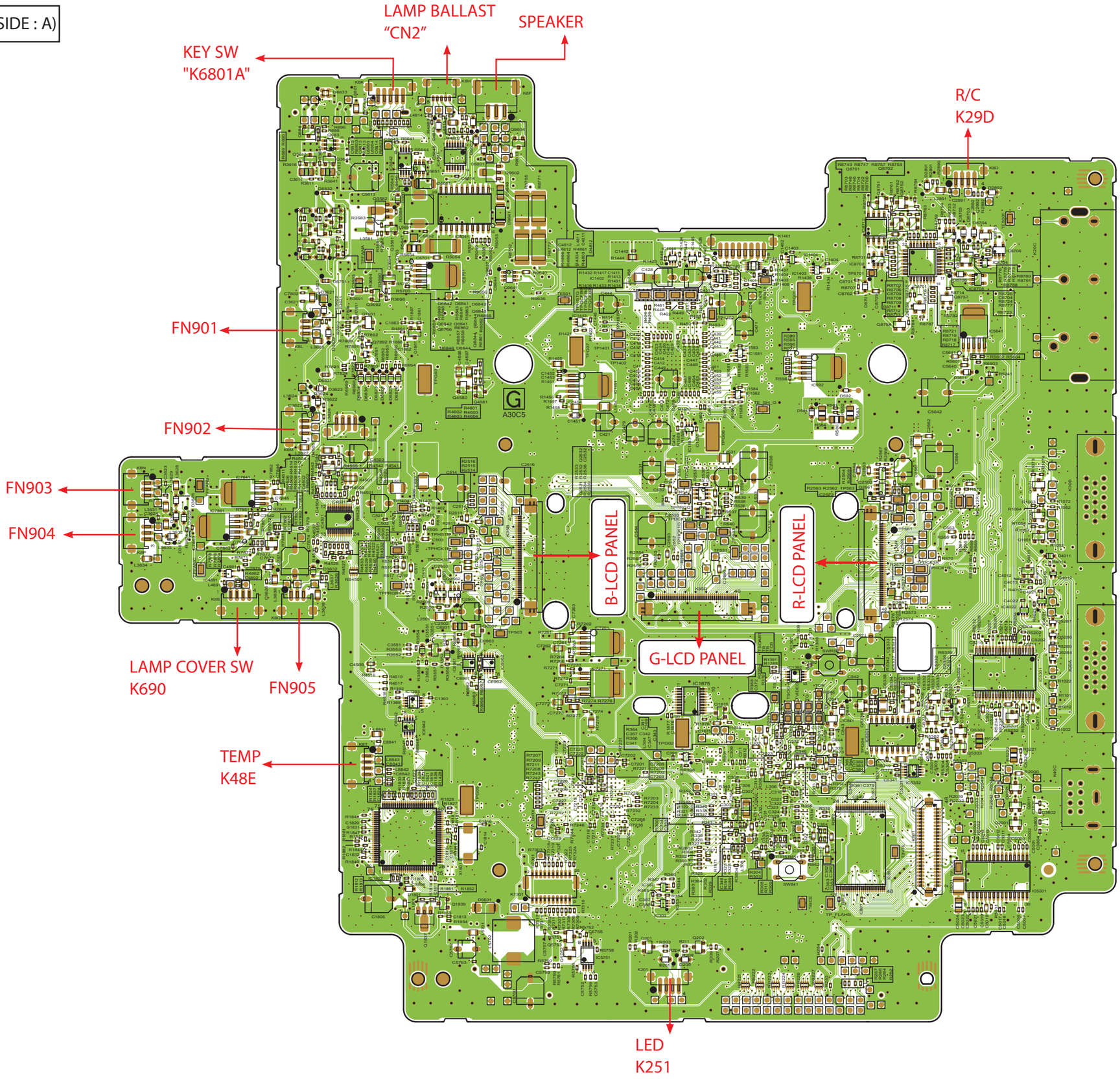
TEMP (SIDE : A)

TEMP (SIDE : B)

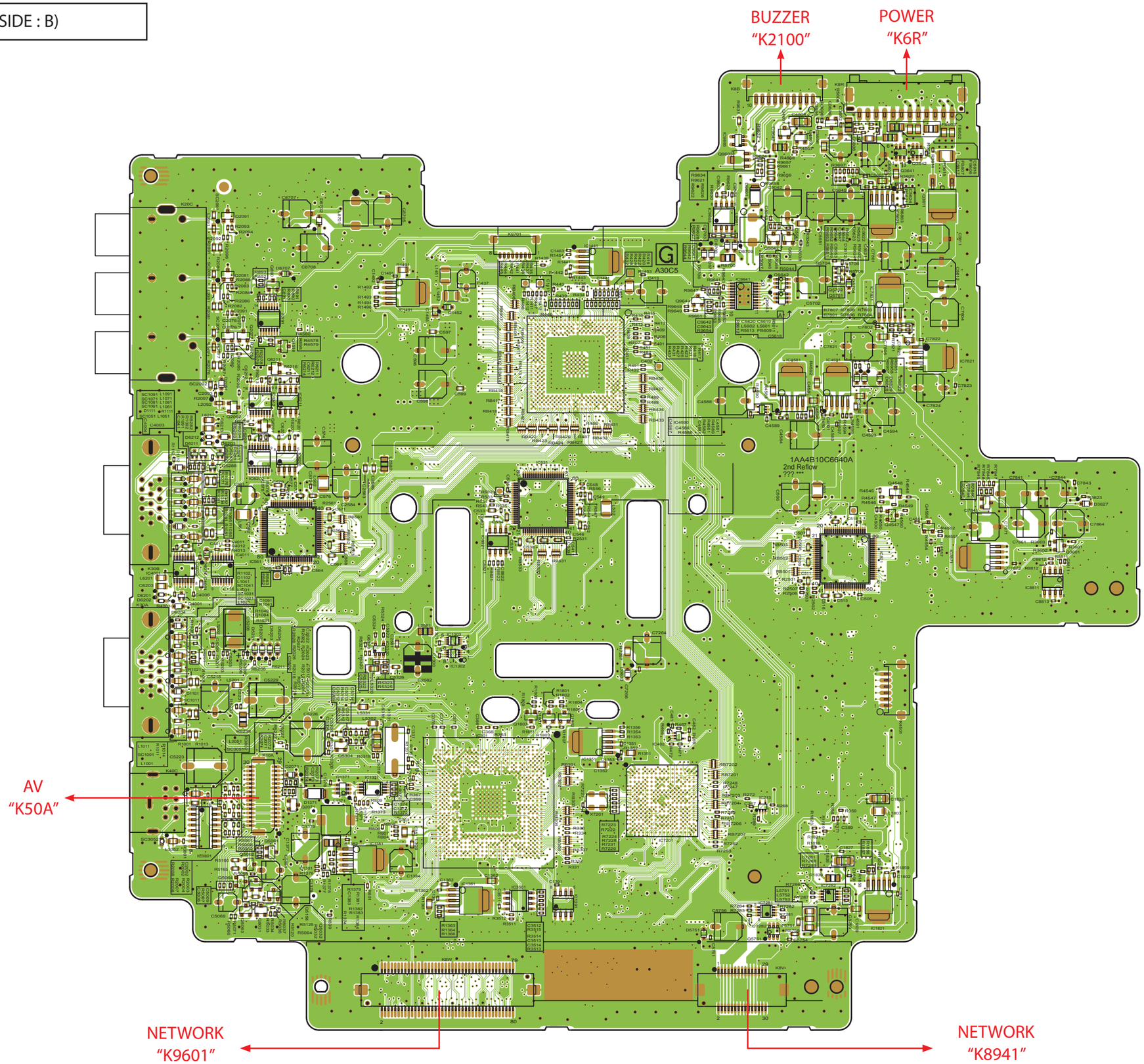


MAIN
"K8T"

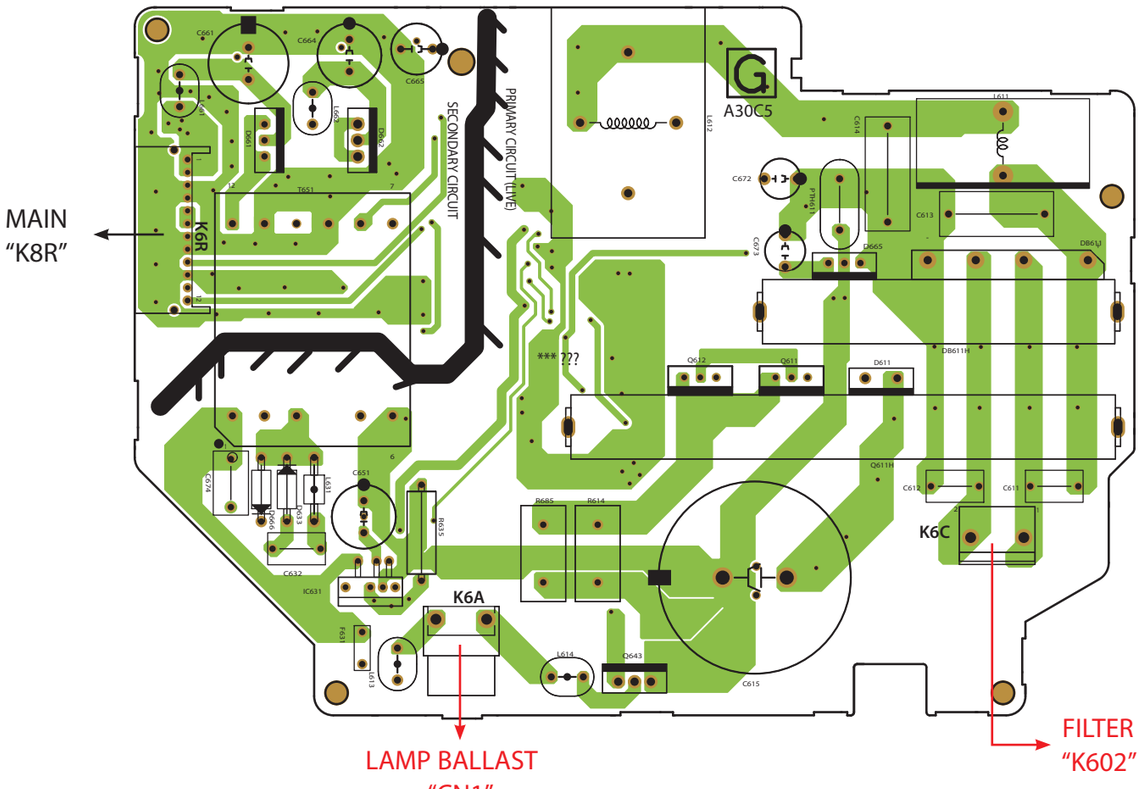
MAIN (SIDE : A)


LAMP BALLAST
"CN2"
SPEAKER
KEY SW
"K6801A"
R/C
K29D
FN901
FN902
FN903
FN904
FN905
LAMP COVER SW
K690
TEMP
K48E
B-LCD PANEL
R-LCD PANEL
G-LCD PANEL
LED
K251

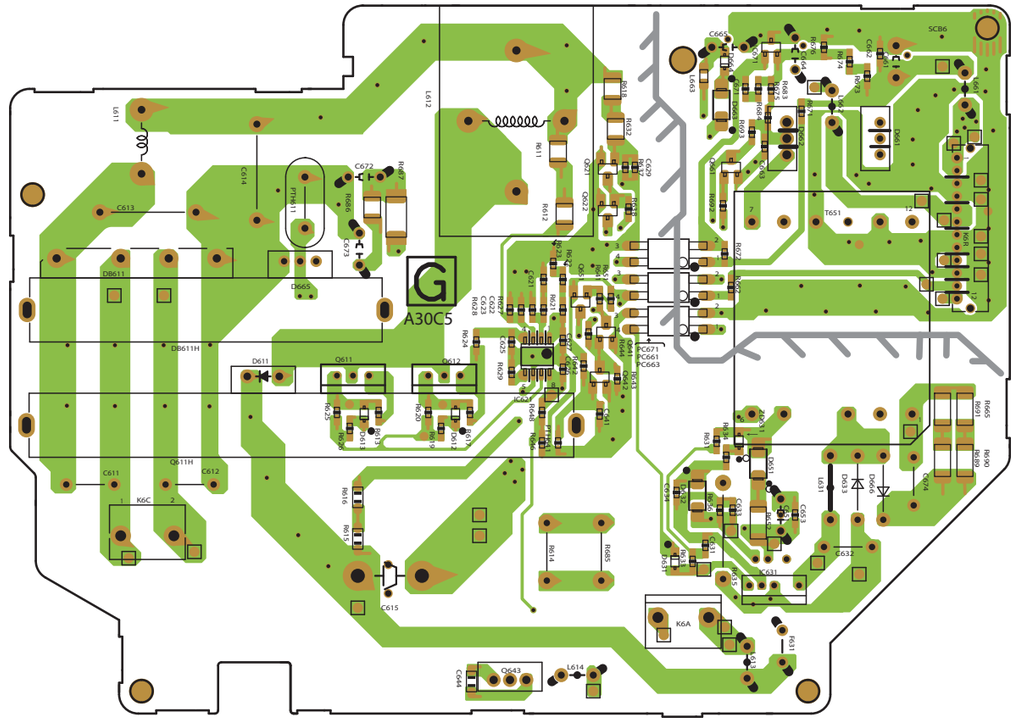
MAIN (SIDE : B)


BUZZER
"K2100"
POWER
"K6R"
AV
"K50A"
NETWORK
"K9601"
NETWORK
"K8941"
1AA4B10C6640A
2nd Reflow
??? ***

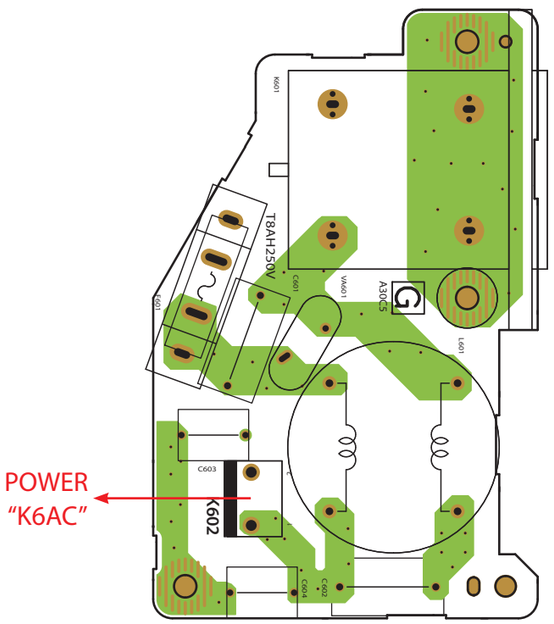
POWER (SIDE : A)



POWER (SIDE : B)

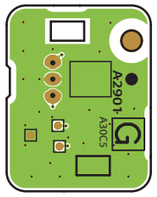


FILTER (SIDE : A)

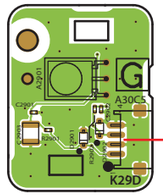


FILTER (SIDE : B)

R/C (SIDE : A)

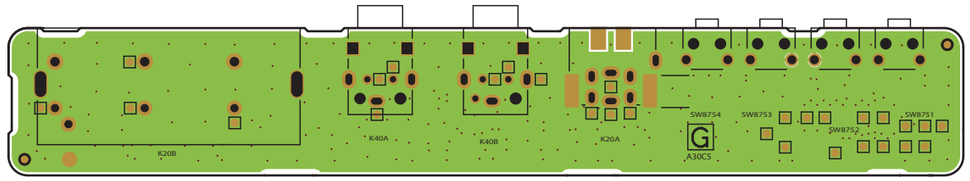


R/C (SIDE : B)

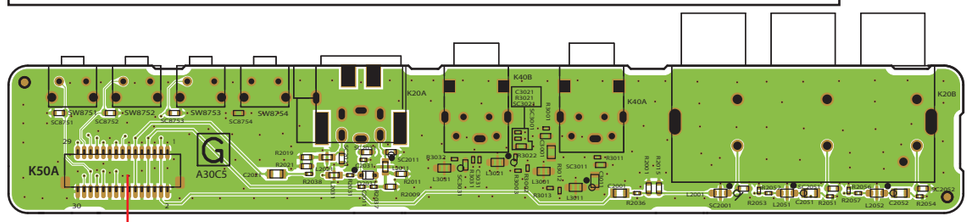


MAIN
"K8D"

AV (SIDE : A)



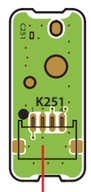
AV (SIDE : B)



MAIN
“K10A”

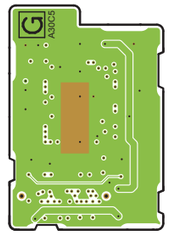
LED (SIDE : A)

LED (SIDE : B)

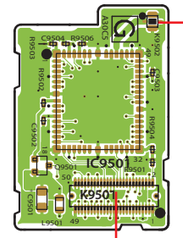


MAIN
“K201”

MODULE (SIDE : A)



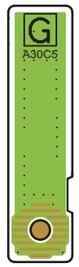
MODULE (SIDE : B)



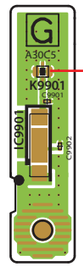
ANTENNA
"K9901K"

NETWORK
"K9301K"

ANTENNA (SIDE : A)

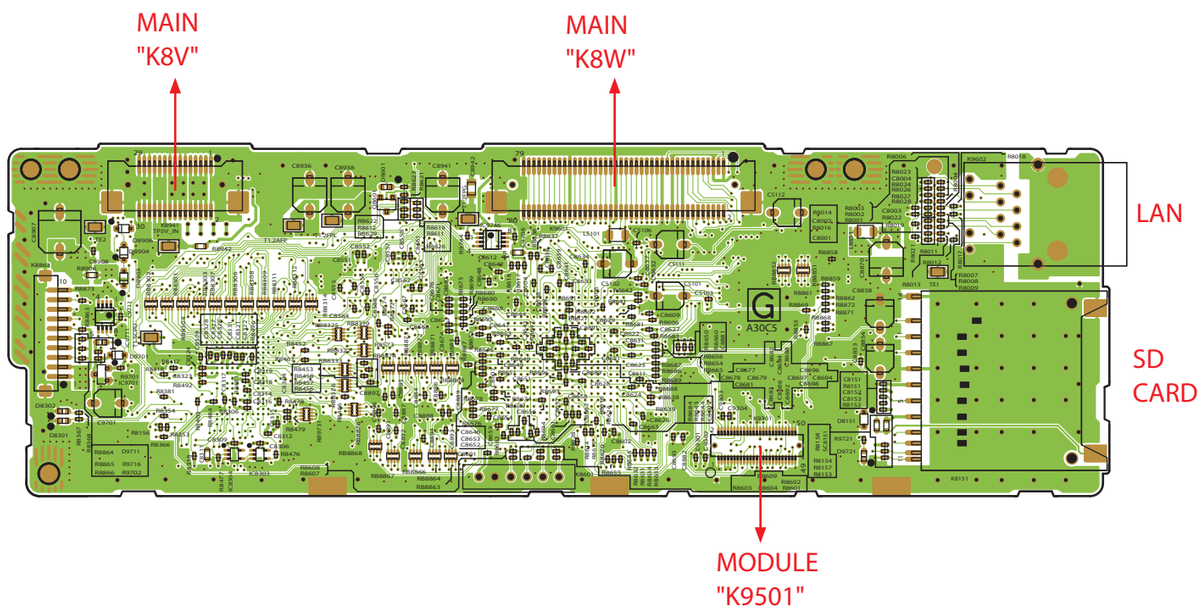


ANTENNA (SIDE : B)

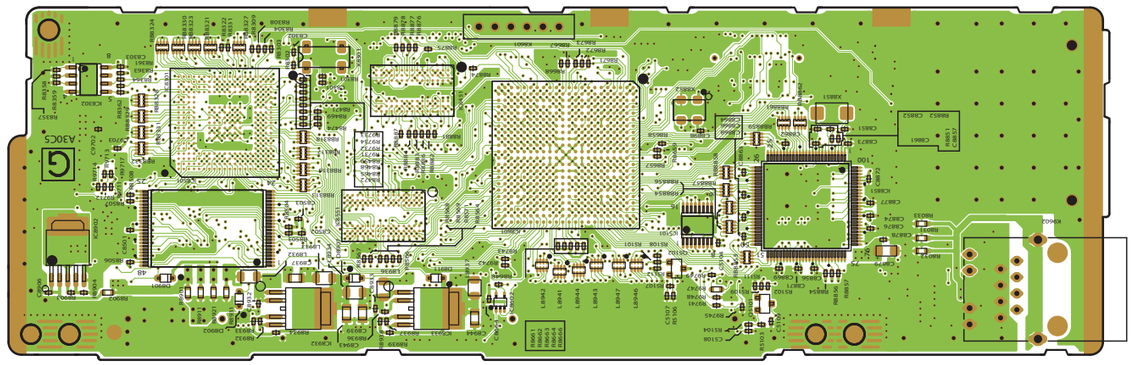
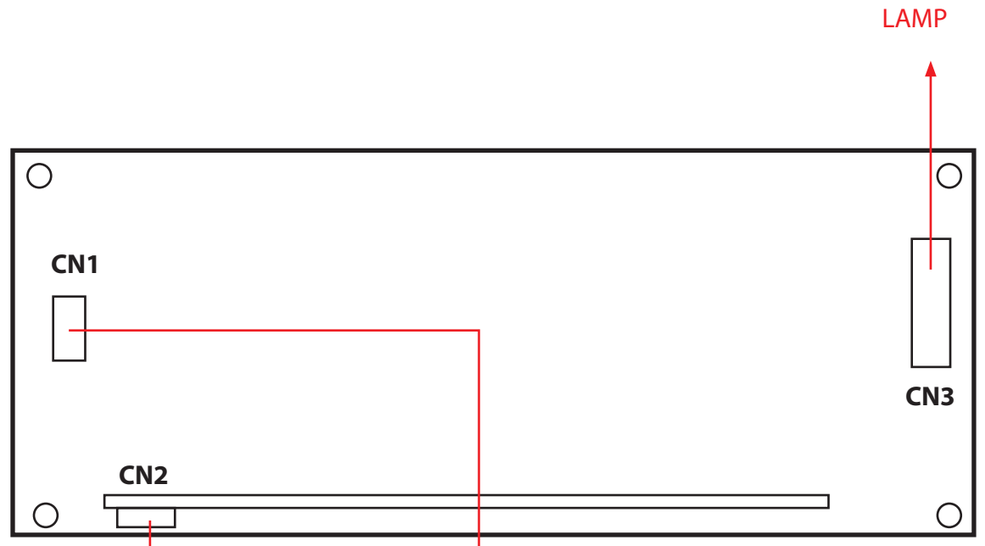


MODULE
"K9502K"

NETWORK (SIDE : A)



NETWORK (SIDE : B)



LAMP BALLAST (SIDE : A)